GENERAL ELECTRIC

TELEVISION

SERVICE INFORMATION

PM CHASSIS

PM CHASSIS MODEL INDEX

19 Inch Models

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19PMB760K	(PM)1-7/8
19PMB762K	(PM)1-9/10
19PM4726W	(PM)1-1
19PM4736W	(PM)1-2
19PM4746W	(PM)1-3
19PM4754W	(PM)1-4
19PM4756W	(PM)1-5
19PM4758W	(PM)1-6
19PM4760K	(PM)1-7/8
19PM4762K	(PM)1-9/10
19PP5738W	(PM)1-23
19PP5764K	(PM)1-25/26
19PM5765W	(PM)1-26A/26B
19PP5780K	(PM)1-27/28
19PM5785K	(PM)1-29/30
19CP6738	(PM)1-45
19CP6770	(PM)1-47/48
19CP6780	(PM)1-49/50

25 Inch Models

Model Number	Model Page
25PMB880K	(PM)1-19/20
25PMB885P	(PM)1-21/22
25PM4835K	(PM)1-11
25PM4836L	(PM)1-11
25PM4837K	(PM)1-11
25PM4850K	(PM)1-12
25PM4851L	(PM)1-12
25PM4852K	(PM)1-12
25PM4853K	(PM)1-13
25PM4854L	(PM)1-13
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25PM4856K	(PM)1-15/16
25PM4857K	(PM)1-15/16
25PM4860K	(PM)1-17/18
25PM4880K	(PM)1-19/20
25PM4885P	(PM)1-21/22

25 Inch Models (cont.)

Model Number	Model Page
25PP5835K	(PM)1-31/32
25PP5836L	(PM)1-31/32
25PP5837P	(PM)1-31/32
25PP5859K	(PM)1-33/34
25PP5860K	(PM)1-35/36
25PP5861L	(PM)1-35/36
25PP5862K	(PM)1-35/36
25PP5863K	(PM)1-37/38
25PP5864K	(PM)1-37/38
25PP5865L	(PM)1-37/38
25PP5870K	(PM)1-39/40
25PP5871L	(PM)1-41/42
25PP5872K	(PM)1-41/42
25PP5880K	(PM)1-43/44
25PM5882E	(PM)1-59/60
25CP6859	(PM)1-61/62

26 Inch Models

Model Number	Model Page
26PP5863K	(PM)1-63/64
26PP5864L	(PM)1-63/64
26PP5865K	(PM)1-63/64
26PP5870K	(PM)1-65/66
26PP5871L	(PM)1-65/66
26PP5872K	(PM)1-65/66
26M5881X	(PM)1-67/68
26CP6863	(PM)1-51/52
26CP6864	(PM)1-53/54
26CP6865	(PM)1-53/54
26CP6869	(PM)1-55/56
26CP6870	(PM)1-57/58
26CP6871	(PM)1-57/58
26CP6872	(PM)1-57/58

MASTER
M 2

GENERAL ELECTRIC
TELEVISION
SERVICE BULLETIN NO. PM-1

File With PM Chassis Service Manual

SUBJECT: PROCEDURE FOR REPLACING TOP TUNING DOOR ASSEMBLY/OR HINGES FOR TOP TUNING MODELS 25PM/19PM

Removal

1. If the hinge is broken, grasp remaining part of hinge with needle nose pliers or diagonal cutting pliers and pull firmly toward yourself. Use care not to scratch the escutcheon.

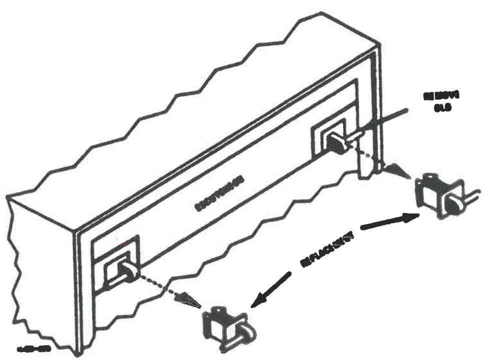
2. If the hinge is broken and no material remains to grasp, use a pointed tool such as a solder aid. Insert it in the center of the remaining material and rock it back and forth to remove from escutcheon.

3. If the hinge is intact, use diagonal cutting pliers to clip it at the pivotal point. Then grasp the remaining part of the hinge with needle nose pliers and pull firmly toward yourself.

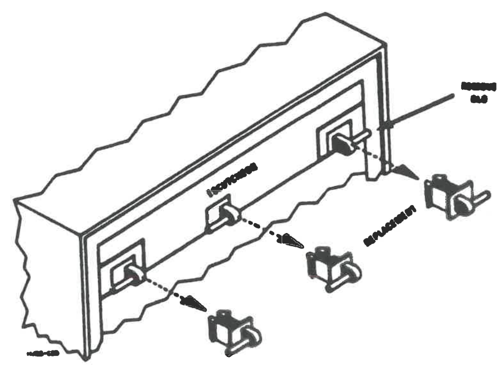
Installation of Hinge

1. Confirm left and right hinge (see illustration).

2. Insert the hinges into door assembly, and then snap the door into place, making sure that they are fully seated.



19" PM
TOP TUNING



25" PM
TOP TUNING

GENERAL ELECTRIC TELEVISION

SERVICE BULLETIN NO. PM-2

File With PM Chassis Service Manual

SUBJECT: INTRODUCTION OF NEW NEOVISION™ PICTURE TUBE IN FOLLOWING SELECTED MODELS:

19PM4758	25PM4853	25PM4860
19PMB760	25PM4854	25PMB880
19PMB762	25PM4855	25PMB885

***NOTE: WHEN ORDERING NEOVISION™ PICTURE TUBES, MAKE SURE THE CORRECT NUMBER IS USED.**

19" PART NUMBER - A42AAZ26X
25" PART NUMBER - A63ABZ40X

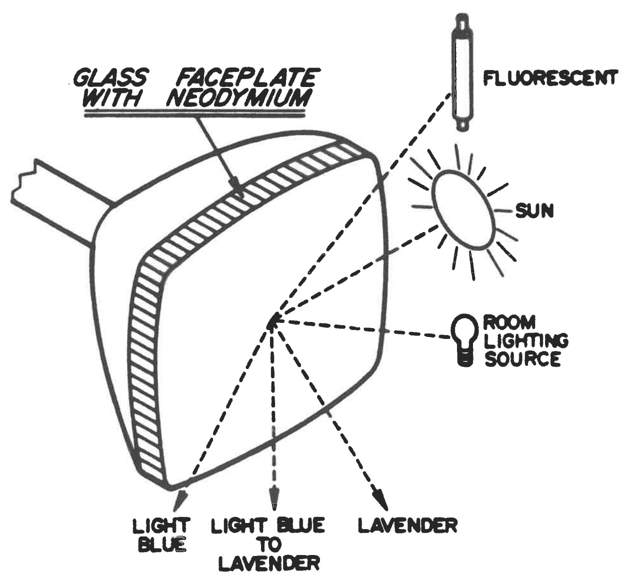
The Neo-Vision™ picture tube can be seen changing color when the set is off, depending on what type of room lighting source is used. This change may be observed by customers and dealers who may ask for an explanation of how this new picture tube works. The following description will enable you to explain how the GE Neo-Vision™ picture tube works, and why it will improve picture contrast and color richness.

When the set is turned on:

The Neo-Vision™ picture tube improves picture contrast and color richness by filtering out room light in the yellow/green to orange area of the light spectrum. The tube utilizes the rare earth element neodymium to absorb over 90% of the yellowish component of room light so it cannot bounce back off the TV screen to wash out light being emitted by the CRT.

When the set is turned off:

The Neo-Vision™ tube appears blue when off because the neodymium continues to absorb yellowish room light while allowing blue light to be reflected back. Depending on the type and intensity of the light shining on the set, the tube will provide a unique shift in color from light blue to lavender.



Typical Light Transmittance for Neodymium Glass Panel

The chart below shows the rejection of the light between wavelength 560 Nm yellow green and 618 Nm reddish orange. This results in removing glare from the screen produced by light sources in this spectrum. Eliminating unwanted light sources improves contrast ratio and color resolution.

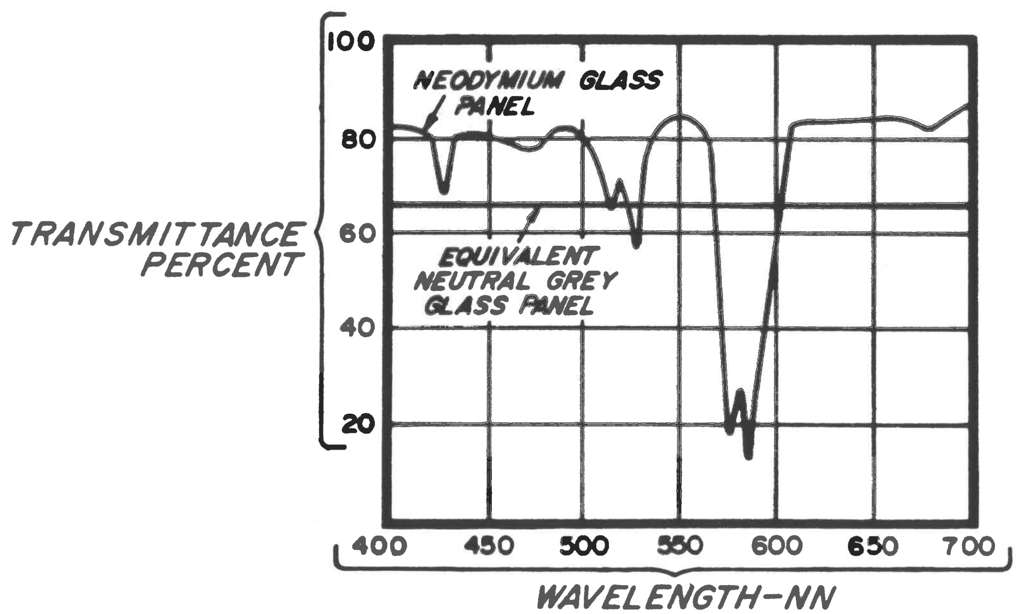


Figure 2 - Typical light transmittance for the neodymium glass panel and the equivalent neutral gray glass panel.

GENERAL ELECTRIC TELEVISION

SERVICE BULLETIN NO. PM-3

File With PM Chassis Service Manual

SUBJECT: **Neodymium Picture Tube Type Numbers**

Because the faceplate of neodymium picture tubes appear to change color under different light sources, there have been some consumer questions as to whether or not their set has the new "blue" tube.

To assist you in answering these questions, here are the current type numbers for the neodymium tubes.

SCREEN SIZE	TUBE TYPE
13"	A33ABM40X
19"	A48AAZ40X
25"	A63ABZ40X

These numbers are found on the label on the CRT. Please note: These tubes have the new universal numbering system used to identify tube types.

GENERAL ELECTRIC

TELEVISION

SERVICE BULLETIN NO. PM-4

File With PM Chassis Service Manual

SUBJECT: Q901 REGULATOR FAILURE

CHASSIS: PM

SYMPTOM: F903 OPEN, Q901 SHORTED, NO APPARENT REASON FOR FAILURE

CAUSE: Should R916 increase in value, Q901 may be affected. R916 is a 110K ohm ¼ 5% carbon composition resistor. Its value should not increase beyond 120K ohms. An increased value of R916 results in improper forward biasing of Q901, eventually fatiguing it's junctions and causing device failure. Y913 and Y914 may become also weakened by Q901 failures.

REPAIR: Replace
1) Q901 Regulator (EP15X223)
2) R916 Resistor (EP14X390)
3) Y913 Rectifier (EP57X5)
4) Y914 Zener (EP16X74)

GENERAL ELECTRIC TELEVISION SERVICE BULLETIN NO. PM-5

File With PM Chassis Service Manual

CHASSIS: PM

SUBJECT: Interaction between HomeMinder™ Remote Control Transmitter and Early MP/LMP 112 TV Receivers

GENERAL Some interaction can occur when the stand-alone HomeMinder™ unit is used with a television using an early production MP/LMP 112 tuning system. The receiver may respond to the HomeMinder™ transmitter commands for HELP, CANCEL, BRITE or DIM and some other buttons by changing channel or volume level.

CAUSE Early production tuner control modules responded to words containing four significant bits instead of the 8 bit words used in later production.

REPAIR Replace IC601 in the tuner control module or replace the tuner control module with a later type.

Original IC ID#	Use Replacement Part
144209-1	EP84X234
144201-1	EP84X235

Original TCM PT#	Use Replacement Part
EP93X412	EP93X555
EP93X413	EP93X531
EP93X424	EP93X510
EP93X442	EP93X511

GENERAL ELECTRIC
TELEVISION
SERVICE BULLETIN NO. PM-6

File With PM Chassis Service Manual

SUBJECT: Audio Buzz

CHASSIS: PM-C models using 10 Watt audio systems.

SYMPTOM: Low level raspy buzzing noise from speakers that is especially noticeable during mute or low listening levels.

CAUSE: Magnetic interference from the yoke being picked up by the audio circuitry.

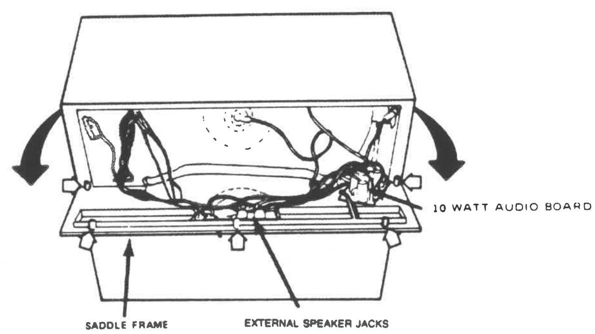
REPAIR: Order a EP93X628 audio/video module. This module will replace the EP93X522 originally installed and contains shielded external speaker leads for models 25PM5880 and 25PM5881. These leads are not required on other models. A complete instruction sheet is packed with the new module, and is also reproduced on the back of this service bulletin for your convience.

PM-C
AUDIO BUZZ MODIFICATION INSTRUCTIONS
EP93X628

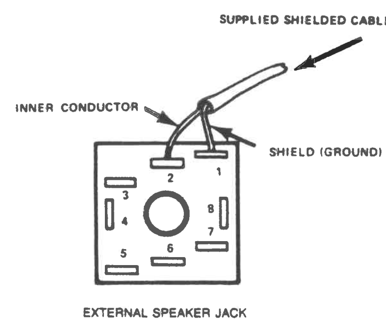
KIT CONTAINS: **1 AUDIO/VIDEO MODULE**
2 SHIELDED CABLES
1 WIRE TIE

1. Remove the original audio/video module (EP93X522) which is located on the left hand side of the chassis behind the rear jack pack. Install the new replacement module, EP93X628.

2. Remove the mounting screws securing the saddle frame. Lower the frame into the service position.

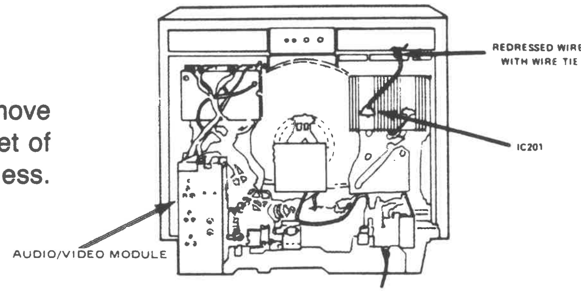


3. Locate the two external speaker phono jacks that are mounted on the saddle frame. Use the supplied shielded cables to replace the existing wires that run from RL86 and RL87 on the 10 watt audio board to the external speaker jacks. Install the shielded cable and solder in place.



4. Reposition the saddle frame to its upright position and locate IC201. Remove the two mounting screws holding IC201 in place and redress the wire up and through the large opening of the saddle frame. The wire should be dressed as far away from the yoke as possible using the supplied wire tie.

5. When remounting IC201 it will be necessary to remove the wire tie wrapped around the mounting bracket of IC201. This will reduce the strain on the wire harness.



GENERAL ELECTRIC
TELEVISION
SERVICE BULLETIN NO. PM-7

File With PM Chassis Service Manual

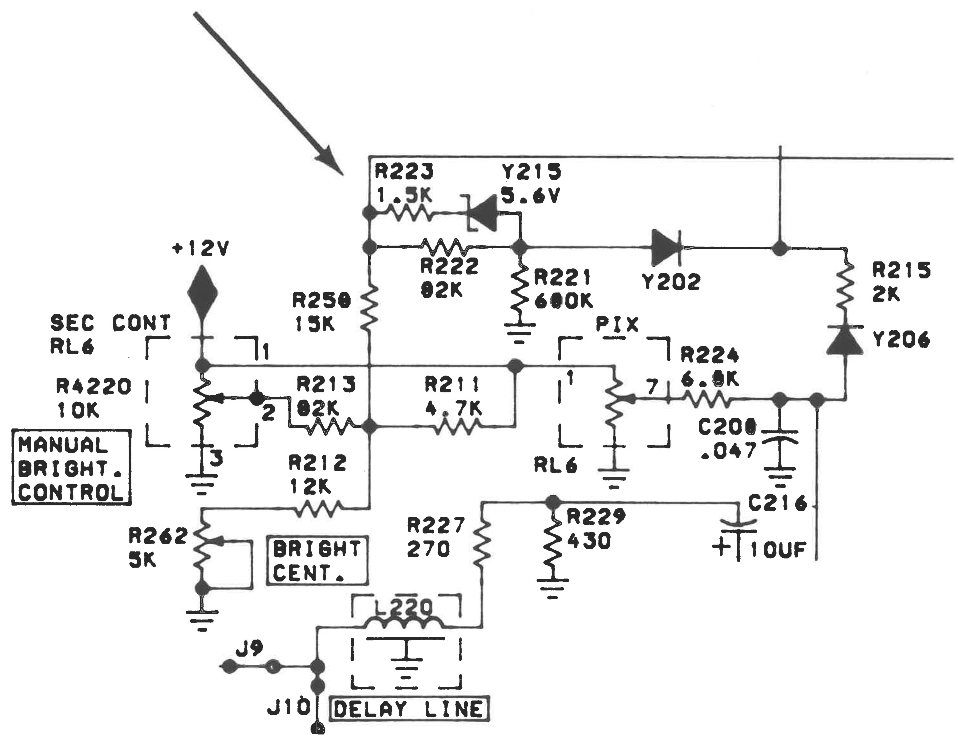
SUBJECT: Nuisance High Voltage Shutdown

CHASSIS: 25 & 26 Inch PM-A, PM-B & PM-C

SYMPTOM: High voltage shutdown for no apparent reason when switching from TV position to video position.

CAUSE: A shift in bias in the low level video amplifiers.

REPAIR: Add a series network make up of a 1500 ohm 1/2 watt resistor and 5.6 volt zener diode (EP16X19) to the video circuit. Connect this series network in parallel with R222, so the anode of the diode is connected to the junction of R222 and Y202.



GENERAL ELECTRIC
TELEVISION
SERVICE BULLETIN NO. PM-8

File With PM Chassis Service Manual

CHASSIS: 26 inch PM chassis

SUBJECT: Pincushion Improvement

SYMPTOM: Due to the large viewing area of the 26 inch picture tube, some critical consumers may find the slight bowing of vertical lines near the edge of the screen objectionable. The condition is most noticeable when the receiver is used as a computer monitor.

REPAIR: A kit has been developed that will reduce the amount of vertical bow near the edge of the screen. The kit, part number EP50X65, consists of the following:

- Installation instructions
- Pincushion transformer
- Capacitor C619
- Resistor R653

The pincushion transformer and the other components included in the kit must be changed together.

SUBJECT: Possible Damage to Replacement MP3 Tuner Control Modules.

CAUSE: The JST type plugs used on MP3 modules can accidentally be interchanged. Part numbers of MP3 units are EP93X585, EP93X587 and EP93X588.

REMEDY: Before removing the old tuner control module, mark the connectors or harnesses with the RL number that they mate with. This will simplify reinstallation.

A diagram of the connectors is shown on service manual page (PM) 6-22.

THIS KIT SHOULD ONLY BE USED ON THE 26 INCH PM CHASSIS

GENERAL ELECTRIC

TELEVISION

SERVICE BULLETIN NO. PM-9

File With PM Chassis Service Manual

SUBJECT: Abnormal Operation of Stereo Adaptable 19 Inch and 25 Inch PM Models When Used With a SBA800 Stereo Adaptor.

SYMPTOM: No audio, or intermittent audio lock-out when used with a SBA800 stereo adaptor module. The stereo and bilingual indicators may have unequal brightness.

CAUSE: Some early production stereo adaptable PM chassis receivers may not switch from stereo to bilingual operation properly and may latch in the bilingual mode due to insufficient current limiting. Only stereo adaptable models produced prior to October of 1984 are involved. Check the date of manufacture sticker on the back of the receiver prior to taking any action.

REPAIR: Confirm that normal operation is restored with the stereo adaptor disconnected. (Note: It is normal for there to be no sound when the stereo adaptor is switched into the bilingual mode on a station broadcasting stereo but not bilingual audio). Then remove the back from the receiver and locate connector PG51/RL51 on the audio/video control board. Remove the plug and cut the yellow wire from pin one about two inches away from the connector. Strip the insulation from both ends. Add a 680 Ohm, 1/2 watt resistor in series with the yellow wire and solder the connections. Cover all exposed wire with a piece of heat shrinkable tubing or tape. Reconnect PG51 to the audio/video control board and reinstall the back of the set and the stereo adaptor. Check operation on a stereo station.

GENERAL ELECTRIC

TELEVISION

SERVICE BULLETIN NO. PM-10

File With PM Chassis Service Manual

CHASSIS: STEREO EQUIPPED PC & PM RECEIVERS.

SYMPTOM: Intermittent stereo operation - stereo indicator flashes on and off on certain stations.

CAUSE: **THIS MAY BE NORMAL OPERATION ON SOME CABLE SYSTEMS.**
The signal distribution system of some cable systems may not be adequate to handle the wide bandwidth required for multi-channel sound (MCS) stereo or bilingual transmissions.

REMEDY: Contact the cable company involved and determine if their system is capable of MCS stereo programming. Find out which stations are being distributed in stereo and if they have received any complaints about intermittent operation.

Do not schedule a service call or replace a stereo adaptor for sets operated on a cable TV system until the cable company has been contacted.

PM CHASSIS
TABLE OF CONTENTS

(NOTE: *THESE PAGES HAVE NOT BEEN ISSUED AT THIS TIME)

PM CHASSIS
TABLE OF CONTENTS (Cont.)

CHECK SERVICE NUMBERS BEFORE ORDERING PARTS
The characters in parenthesis ( ) after descriptions refer to the last three characters on the serial number label.

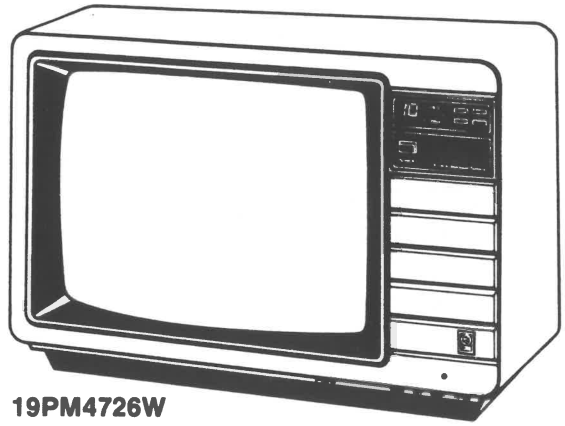
GENERAL ELECTRIC
TELEVISION
SERVICE INFORMATION

PM CHASSIS
19PM4726WA01

GENERAL INFORMATION

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	PM-A
TUNING SYSTEM:	SET130
PICTURE TUBE:	* A48AAZ26X
UHF/VHF TUNER:	* EP93X502
AUDIO CIRCUIT BOARD:	EP93X439
LIGHT DEPENDENT RESISTOR BD:	EP41X144
POWER SUPPLY CIRCUIT BOARD:	EP93X430
VIR MODULE:	EP93X462
SPEAKER: 16 ohm, 4X4"	EP95X25
SET130 TUNER CONTROL BOARD:	EP93X466
USER'S MANUAL:	29-9307-83



19PM4726W

CABINET AND APPEARANCE REPLACEMENT PARTS LIST

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4220	EP49X352	BRIGHTNESS-10K ohm, 20%
R4260	EP49X352	PICTURE-10K ohm, 20%
R4300	EP49X352	TINT-10K ohm, 20%
R4301	EP49X352	COLOR-10K ohm, 20%
R5010	EP49X488	AUDIO-50K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%
* S4000	EP39X202	SWITCH-On/Off, Push-Push
S4010	EP39X204	SWITCH-Int/Ext Audio, DPDT, Slide
S4014	EP39X203	SWITCH-VIR, SPDT, Slide Type
S4200	EP39X205	SWITCH-Antenna/Video, TPDT, Slide
SW3008	EP39X146	NORM/CABLE SELECT-Slide Type

KEYBOARD

PART NO.	DESCRIPTION
EP62X177	Vol., & Channel Select

KNOBS

PART NO.	DESCRIPTION
EP43X341	Color, Tint, Brightness, & Picture, Thumbwheel
EP43X446	On/Off, Black W/Retainer

SPACE 1 TIMER BEFORE CATALOG NUMBER

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP83X13	ANTENNA-UHF Bowtie Type

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP83X17	ANTENNA-VHF, Fold-Down
EP37X69	ANTENNA TERMINAL BOARD-Complete
EP98X478	BACK-Black, Plastic
EP2X582	BRACKET-VHF Antenna Mounting, Plastic
ES3X29	CLIP-Antenna Terminal
EP2X540	CLIP-Power Cord Holder
*EP66X19	CORD-AC Power, Polarized
EP4X175	COVER-Service Information, Black, Plastic
EP8X127	JACKS-Rear, J5001, J5002, J5003, J5007, J5009
EP4X421	OVERLAY-Rear Controls, Alum.
EP1X33	RIVET-Plastic

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP99X447	FRONT-Cherry Woodgrain, Plastic
EP92X113	BRACKET-SET130 Mounting, Plastic
EP41X139	CHANNEL NUMBER READOUT DISPLAY-Green
EP4X430	DOOR-Keyboard Access, Black, Lexan
EP89X485	ESCUTCHEON-Upper Controls, Black, Plastic
EP89X479	GRILLE-Speaker, Black
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP4X418	OVERLAY-Secondary Control Inlay
EP4X420	OVERLAY-G. E. Nameplate
EP41X14	PILOT LIGHT-VIR, Red
EP2X581	RETAINER-Hook For CRT Ground, Lexan
EP3X37	SPRING-Access Door (2)
EP2X534	SPRING-CRT Ground

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

CHECK SERVICE NUMBERS BEFORE ORDERING PARTS
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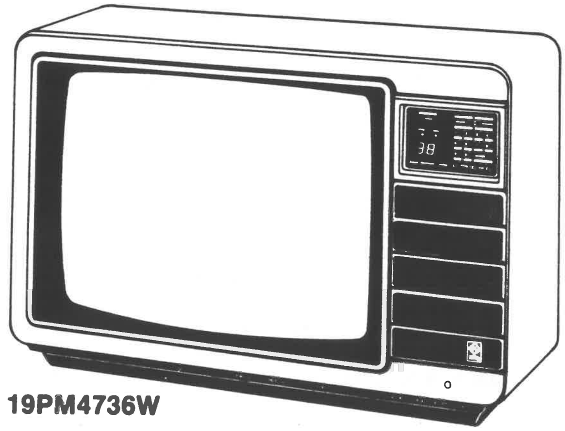
GENERAL ELECTRIC
TELEVISION
SERVICE INFORMATION

PM CHASSIS
19PM4736WA01

GENERAL INFORMATION

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	PM-A
TUNING SYSTEM:	KMPS130
PICTURE TUBE:	* A48AAZ26X
UHF/VHF TUNER:	* EP93X502
AUDIO CIRCUIT BOARD:	EP93X439
LIGHT DEPENDENT RESISTOR BD:	EP41X144
POWER SUPPLY CIRCUIT BOARD:	EP93X430
VIR MODULE:	EP93X462
SPEAKER: 16 ohm, 4X4"	EP95X25
KMPS130 TUNER CONTROL BOARD:	EP93X467
USER'S MANUAL:	29-9309-83


19PM4736W

CABINET AND APPEARANCE REPLACEMENT PARTS LIST

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4220	EP49X352	BRIGHTNESS-10K ohm, 20%
R4260	EP49X352	PICTURE-10K ohm, 20%
R4300	EP49X352	TINT-10K ohm, 20%
R4301	EP49X352	COLOR-10K ohm, 20%
R5010	EP49X488	AUDIO-50K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%
* S4000	EP39X202	SWITCH-On/Off, Push-Push
S4010	EP39X204	SWITCH-Int/Ext Audio, DPDT, Slide
S4014	EP39X203	SWITCH-VIR, SPDT, Slide Type
S4200	EP39X205	SWITCH-Antenna/Video, TPDT, Slide
SW3008	EP39X146	NORM/CABLE SELECT-Slide Type

KEYBOARD

PART NO.	DESCRIPTION
EP62X180	VOL., & CHANNEL SELECT

KNOBS

PART NO.	DESCRIPTION
EP43X341	Color, Tint, Brightness, & Picture, Thumbwheel
EP43X445	ON/OFF, Black & Chrome

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP83X13	ANTENNA-UHF Bowtie Type
EP83X17	ANTENNA-VHF, Fold-Down
EP37X69	ANTENNA TERMINAL BOARD-Complete
EP98X478	BACK-Black, Plastic
EP2X582	BRACKET-VHF Antenna Mounting, Plastic
ES3X29	CLIP-Antenna Terminal
EP2X540	CLIP-Power Cord Holder
*EP66X19	CORD-AC Power, Polarized
EP4X175	COVER-Service Information, Black, Plastic
EP4X421	OVERLAY-Rear Controls Alum.
EP1X33	RIVET-Plastic

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP99X447	FRONT-Cherry Woodgrain, Plastic
EP92X114	BRACKET-KMPS130 Mounting, Plastic
EP41X139	CHANNEL NUMBER READOUT DISPLAY-Green
EP89X486	ESCUTCHEON-Upper Controls, Black, Plastic
EP89X479	GRILLE-Speaker, Black
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP4X418	OVERLAY-Secondary Control Inlay
EP4X420	OVERLAY-G. E. Nameplate
EP41X14	PILOT LIGHT-VIR, Red
EP2X581	RETAINER-Hook, CRT Ground, Lexan
EP2X534	SPRING-CRT Ground

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN COMPONENT REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. THE (*) BESIDE A PART IN THE [illegible] AND THE SHADED AREAS OF THE SCHEMATIC DIAGRAM DESIGNATES COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE. IT IS PARTICULARLY RECOMMEN[illegible] EXACT CATALOGED PARTS BE USED FOR REPLACEMENT OF COMPONENTS WHICH ARE DESIGNATED BY A (*) IN THE PARTS LIST AND THE SHADED AREAS ON THE SCHEMATIC DIAGRAM.
USE OF SUBSTITUTE REPLACEMENT PARTS WHICH DO NOT HAVE THE SAME SAFETY CHARACTERISTICS AS RECOMMENDED IN FACTORY SERVICE INFORMATION MAY CREATE SHOCK, FIRE OR OTHER HAZARDS, OR EXCESSIVE X-RADIATION.

TELEVISION PRODUCT SERVICE, PORTSMOUTH, VIRGINIA
1/84 (SUPERSEDES 9/83)

CHECK SERVICE NUMBERS BEFORE ORDERING PARTS
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GENERAL ELECTRIC

TELEVISION

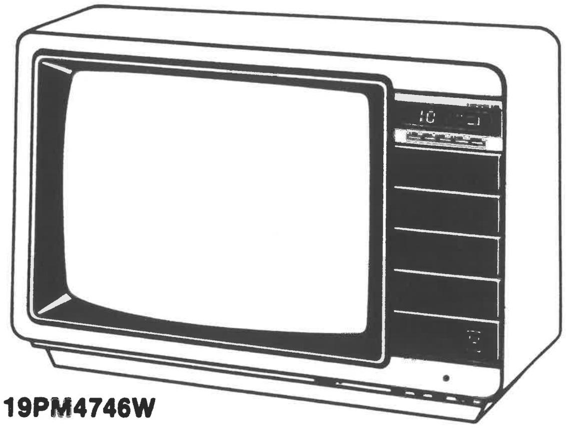
SERVICE INFORMATION

PM CHASSIS
19PM4746WA01

GENERAL INFORMATION

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	PM-A
TUNING SYSTEM:	LMP130
PICTURE TUBE:	* A48AAZ26X
UHF/VHF TUNER:	* EP93X502
AUDIO CIRCUIT BOARD:	EP93X439
LIGHT DEPENDENT RESISTOR BD:	EP41X144
POWER SUPPLY CIRCUIT BOARD:	EP93X430
REMOTE CONTROL RECEIVER MODULE:	EP93X480
REMOTE CONTROL TRANSMITTER:	EP62X164
VIR MODULE:	EP93X462
SPEAKER: 16 ohm, 4X4"	EP95X25
LMP130 TUNER CONTROL BOARD:	EP93X465
USER'S MANUAL:	29-9311-83



19PM4746W

CABINET AND APPEARANCE REPLACEMENT PARTS LIST

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4220	EP49X352	BRIGHTNESS-10K ohm, 20%
R4260	EP49X352	PICTURE-10K ohm, 20%
R4300	EP49X352	TINT-10K ohm, 20%
R4301	EP49X352	COLOR-10K ohm, 20%
R5010	EP49X488	AUDIO-50K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%
S4010	EP39X204	SWITCH-Int/Ext Audio, DPDT, Slide
S4014	EP39X203	SWITCH-VIR, SPDT, Slide Type
S4200	EP39X205	SWITCH-Antenna/Video, TPDT, Slide
SW3008	EP39X146	NORM/CABLE SELECT-Slide Type

KEYBOARD

PART NO.	DESCRIPTION
EP62X174	ON/OFF, VOL., & CHANNEL SELECT

KNOBS

PART NO.	DESCRIPTION
EP43X341	Color, Tint, Brightness, & Picture, Thumbwheel

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP83X13	ANTENNA-UHF Bowtie Type

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP83X17	ANTENNA-VHF, Fold-Down
EP37X69	ANTENNA TERMINAL BOARD-Complete
EP98X478	BACK-Black, Plastic
EP2X582	BRACKET-VHF Antenna Mounting, Plastic
ES3X29	CLIP-Antenna Terminal
EP2X540	CLIP-Power Cord Holder
*EP66X19	CORD-AC Power, Polarized
EP4X175	COVER-Service Information, Black, Plastic
EP8X127	JACKS-Rear, J5001, J5002, J5003, J5007, J5009
EP4X421	OVERLAY-Rear Controls, Alum.
EP1X33	RIVET-Plastic

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP99X447	FRONT-Cherry Woodgrain, Plastic
EP92X112	BRACKET-LMP130 Mounting, Plastic
EP41X139	CHANNEL NUMBER READOUT DISPLAY-Green
EP89X484	ESCUTCHEON-Upper Controls, Black, Plastic
EP89X464	GRILLE CLOTH-Speaker, Black
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP4X418	OVERLAY-Secondary Control Inlay
EP4X420	OVERLAY-G. E. Nameplate
EP41X14	PILOT LIGHT-VIR, Red
EP2X581	RETAINER-Hook For CRT Ground
EP2X534	SPRING-CRT Ground
EP4X416	WINDOW-Channel Readout, Black, Plastic

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN COMPONENT REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. THE (*) BESIDE A PART IN THE PARTS LIST AND THE SHADED AREAS OF THE SCHEMATIC DIAGRAM DESIGNATES COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE. IT IS PARTICULARLY RECOMMENDED THAT EXACT CATALOGED PARTS BE USED FOR REPLACEMENT OF COMPONENTS WHICH ARE DESIGNATED BY A (*) IN THE PARTS LIST AND THE SHADED AREAS ON THE SCHEMATIC DIAGRAM. USE OF SUBSTITUTE REPLACEMENT PARTS WHICH DO NOT HAVE THE SAME SAFETY CHARACTERISTICS AS RECOMMENDED IN FACTORY SERVICE INFORMATION MAY CREATE SHOCK, FIRE OR OTHER HAZARDS, OR EXCESSIVE X-RADIATION.

CHECK SERVICE NUMBERS BEFORE ORDERING PARTS
The characters in parenthesis ( ) after descriptions refer to the last three characters on the serial number label.

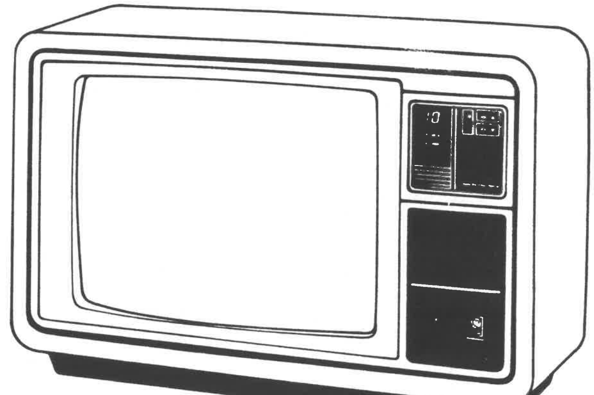
GENERAL ELECTRIC
TELEVISION
SERVICE INFORMATION

PM CHASSIS
19PM4754WA01

GENERAL INFORMATION

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	PM-A
TUNING SYSTEM:	MP130
PICTURE TUBE:	* A48AAZ26X
UHF/VHF TUNER:	* EP93X502
AUDIO CIRCUIT BOARD:	EP93X439
LIGHT DEPENDENT RESISTOR BD:	EP41X144
POWER SUPPLY CIRCUIT BOARD:	* EP93X430
REMOTE CONTROL RECEIVER MODULE:	EP93X480
REMOTE CONTROL TRANSMITTER:	EP62X165
VIR MODULE:	EP93X462
SPEAKER: 16 ohm, 4"	EP95X25
MP130 TUNER CONTROL BOARD:	EP93X490
USER'S MANUAL:	29-9312-83



19PM4754W

CABINET AND APPEARANCE REPLACEMENT PARTS LIST

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4220	EP49X352	BRIGHTNESS-10K ohm, 20%
R4260	EP49X494	PICTURE-10K ohm, 20%
R4300	EP49X352	TINT-10K ohm, 20%
R4301	EP49X352	COLOR-10K ohm, 20%
R5010	EP49X488	AUDIO LEVEL-50K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%
S4014	EP39X203	SWITCH-VIR, Slide Type
S4200	EP39X205	SWITCH-Ant/Video, Slide Type
S5010	EP39X204	SWITCH-Internal/External Audio, Slide Type
SW5008	EP39X146	SWITCH-Cable Select, Slide Type

KEYBOARD

PART NO.	DESCRIPTION
EP93X186	ON/OFF, VOL., & CHANNEL SELECT

KNOBS

PART NO.	DESCRIPTION
EP43X341	Color, Tint, Brightness, & Picture, Thumbwheel

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP83X13	ANTENNA-UHF Bowtie Type
EP83X17	ANTENNA-VHF, Fold-Down
EP37X69	ANTENNA TERMINAL BOARD-Complete
EP98X480	BACK-Black, Plastic
EP2X582	BRACKET-VHF Antenna Mounting, Plastic
EP2X325	BRACKET-Redundant Controls Mounting, Plastic
ES3X29	CLIP-Antenna Terminal
EP2X540	CLIP-Power Cord Retainer
*EP66X19	CORD-AC Power, Polarized
EP4X175	COVER-Service Information, Black, Plastic
EP4X421	OVERLAY-Rear Controls, Alum.
EP1X33	RETAINER-Quick Lock (4 Used)

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP99X449	FRONT-Cherry Woodgrain, Plastic
EP2X558	BACKING PLATE-For Keyboard Mounting
EP2X588	BRACKET-Keyboard Mounting, Plastic
EP41X139	CHANNEL NUMBER READOUT DISPLAY-Green
EP4X432	DOOR-Keyboard Access, Black, Lexan
EP89X491	ESCUTCHEON-Upper Controls & Speaker, Cherry
EP89X493	GRILLE CLOTH-Speaker, Black
EP8X127	JACK-Phono, J5001/J5002/J5003/J5007/J5009
EP4X178	LENS-Filter, Snap-In
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP4X420	OVERLAY-Nameplate
EP41X14	PILOT LIGHT-VIR, Red
EP3X39	SPRING-Access Door (2 Used)
EP4X433	WINDOW-Channel Readout, Plastic

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

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USE OF SUBSTITUTE REPLACEMENT PARTS WHICH DO NOT HAVE THE SAME SAFETY CHARACTERISTICS AS RECOMMENDED IN FACTORY SERVICE INFORMATION MAY CREATE SHOCK, FIRE OR OTHER HAZARDS, OR EXCESSIVE X-RADIATION.

TELEVISION PRODUCT SERVICE, PORTSMOUTH, VIRGINIA
1/84 (SUPERSEDES 9/83)

CHECK SERVICE NUMBERS BEFORE ORDERING PARTS
The characters in parenthesis ( ) after descriptions refer to the last three characters on the serial number label.

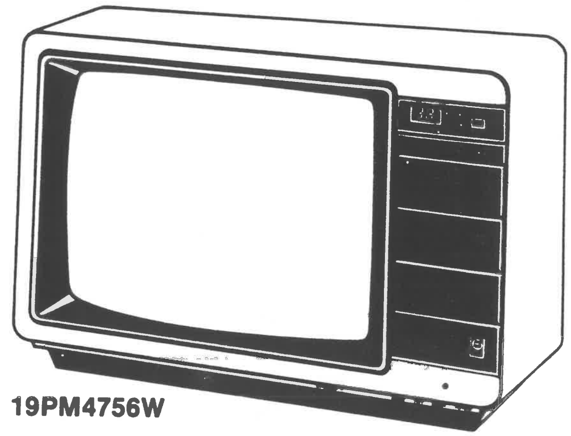
GENERAL ELECTRIC
TELEVISION
SERVICE INFORMATION

PM CHASSIS
19PM4756WA01

GENERAL INFORMATION

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	PM-A
TUNING SYSTEM:	MP130
PICTURE TUBE:	* A48AAZ26X
UHF/VHF TUNER:	* EP93X502
AUDIO CIRCUIT BOARD:	EP93X439
LIGHT DEPENDENT RESISTOR BD:	EP41X144
POWER SUPPLY CIRCUIT BOARD:	EP93X430
REMOTE CONTROL RECEIVER MODULE:	EP93X480
REMOTE CONTROL TRANSMITTER:	EP62X165
VIR MODULE:	EP93X462
SPEAKER: 16 ohm, 4X4"	EP95X25
MP130 TUNER CONTROL BOARD:	EP93X464
USER'S MANUAL:	29-9312-83



19PM4756W

CABINET AND APPEARANCE REPLACEMENT PARTS LIST

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4220	EP49X352	BRIGHTNESS-10K ohm, 20%
R4260	EP49X352	PICTURE-10K ohm, 20%
R4300	EP49X352	TINT-10K ohm, 20%
R4301	EP49X352	COLOR-10K ohm, 20%
R5010	EP49X488	AUDIO-50K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%
S4010	EP39X204	SWITCH-Int/Ext Audio, DPDT, Slide
S4014	EP39X203	SWITCH-VIR, SPDT, Slide Type
S4200	EP39X205	SWITCH-Antenna/Video, TPDT, Slide
SW3008	EP39X146	NORM/CABLE SELECT-Slide Type

KEYBOARD

PART NO.	DESCRIPTION
EP62X174	ON/OFF, Vol., & Channel Select

KNOBS

PART NO.	DESCRIPTION
EP43X341	Color, Tint, Brightness, & Picture, Thumbwheel

SPACE 1 TIMER BEFORE CATALOG NUMBER

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP83X13	ANTENNA-UHF Bowtie Type
EP83X17	ANTENNA-VHF, Fold-Down
EP37X69	ANTENNA TERMINAL BOARD-Complete
EP98X478	BACK-Black, Plastic
EP2X582	BRACKET-VHF Antenna Mounting, Plastic
ES3X29	CLIP-Antenna Terminal
EP2X540	CLIP-Power Cord Holder
*EP66X19	CORD-AC Power, Polarized
EP4X175	COVER-Service Information, Black, Plastic
EP8X127	JACKS-Rear, J5001, J5002, J5003, J5007, J5009
EP4X421	OVERLAY-Rear Controls, Alum
EP1X33	RIVET-Plastic

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP99X447	FRONT-Cherry Woodgrain, Plastic
EP92X115	BRACKET-MP130 Mounting, Plastic
EP41X139	CHANNEL NUMBER READOUT DISPLAY-Green
EP4X419	DOOR-Keyboard Access, Black, Lexan
EP89X487	ESCUTCHEON-Upper Controls, Black, Plastic
EP89X489	GRILLE CLOTH-Speaker
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP4X418	OVERLAY-Secondary Control Inlay
EP4X420	OVERLAY-G. E. Nameplate
EP41X14	PILOT LIGHT-VIR, Red
EP2X581	RETAINER-Hook, CRT Ground
EP2X534	SPRING-CRT Ground
EP4X417	WINDOW-Channel Readout, Black, Plastic

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

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GENERAL ELECTRIC

TELEVISION

SERVICE INFORMATION

TELEVISION
PM CHASSIS
19PM4758WA01

GENERAL INFORMATION

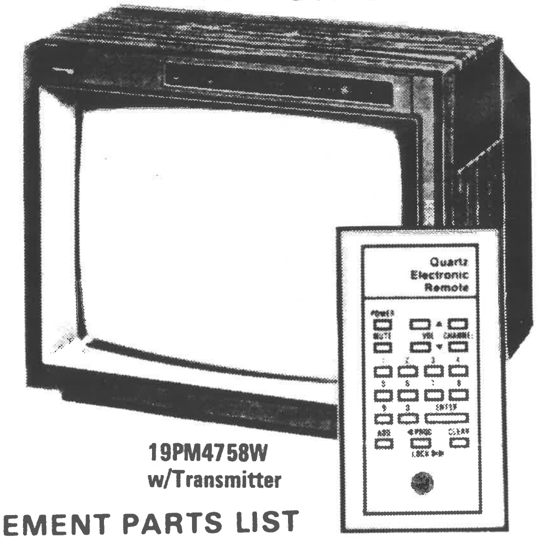
CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	19" PM-A
TUNING SYSTEM:	MP130
PICTURE TUBE:	* A48AAZ40X
UHF/VHF TUNER:	* EP93X502
AUDIO CIRCUIT BOARD:	EP93X439
POWER SUPPLY CIRCUIT BOARD:	EP93X430
REMOTE CONTROL RECEIVER MODULE:	EP93X483
REMOTE CONTROL TRANSMITTER:	EP62X165
TOP TUNING CIRCUIT BOARD:	EP93X503
VIR MODULE:	EP93X462
SPEAKER: 8 ohm, 4"	EP95X40 (2 Used)
MP130 TUNER CONTROL BOARD:	EP93X464
USER'S MANUAL:	29-9377-83

* Replace picture tube only with original type number or factory approved substitute.

The characters in brackets - [ ] - after some part descriptions refer to the last three characters in the service number. The service number is printed either on the serial number label or a separate label attached to the back of the receiver.

Check Service Number before ordering parts.



19PM4758W
w/Transmitter

CABINET AND APPEARANCE REPLACEMENT PARTS LIST

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4220	EP49X491	BRIGHTNESS-10K, 20%
R4260	EP49X491	PICTURE-10K ohm, 20%
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R5010	EP49X488	AUDIO LEVEL-50K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%
S4010	EP39X213	SWITCH-Internal/External Audio, DP - 2 Pos.
S4014	EP39X207	SWITCH-Manual/VIR, Push
S4200	EP39X214	SWITCH-Antenna Video, 3P - 2 Pos
* SW4001	EP39X206	SWITCH-On/Off, Push
SW4002	EP39X206	SWITCH-Vol. Up, Push
SW4003	EP39X206	SWITCH-Vol. Down, Push
SW4004	EP39X206	SWITCH-Channel Up, Push
SW4005	EP39X206	SWITCH-Channel Down, Push
SW5008	EP39X146	SWITCH-Cable Select, Slide Type

KNOBS

PART NO.	DESCRIPTION
EP47X60	Color, Tint, Brightness, & Picture
EP47X59	ON/OFF, Vol. Up, Vol. Down, Channel Up, & Channel Down
EP47X60	Internal/External Audio, TV/Video
EP47X61	VIR

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP83X13	ANTENNA-UHF Bowtie Type
EP83X17	ANTENNA-VHF, Fold-Down
EP37X69	ANTENNA TERMINAL BOARD-Complete
EP2X585	BRACKET-VHF Antenna Mounting, Plastic
EP98X514	CABINET BACK-Black, Plastic
ES3X29	CLIP-Antenna Terminal
EP2X540	CLIP-Power Cord Retainer
*EP66X19	CORD-AC Power, Polarized
EP4X175	COVER-Service Information, Black, Plastic
EP4X421	OVERLAY-Rear Controls, Alum.
EP1X33	RIVET-Plastic

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP92X123	BRACKET-Module Mounting, Top Back, Plastic
EP2X542	BRACKET-VIR Circuit Board Support, Plastic
EP99X478	CABINET FRONT-Black, Plastic
EP97X109	CABINET WRAP-Top & Sides, Walnut, Metal
EP41X142	CHANNEL NUMBER READOUT DISPLAY-Green
EP91X115	DOOR-Top Tuning, Silver
EP4X426	DOOR HINGE-Right & Left Side
EP2X582	DOOR LATCH
EP89X530	GRILLE CLOTH-Speaker (2 Used)
EP8X127	JACK-Phono, J5001/J5002/J5003/J5007/J5009
EP2X584	LIGHT PIPE-Light Sensor, Plastic, W/Spacer
EP4X465	OVERLAY-Primary Controls, Black, Lexan
EP4X464	OVERLAY-Secondary Controls, Black, Lexan
EP41X14	PILOT LIGHT-Video, Red, Y4001
EP41X14	PILOT LIGHT-VIR, Red, Y4003
EP2X615	RETAINER-Grille Cloth Mounting (6 Used)
EP3X54	SWITCH PAD
EP2X534	SPRING-CRT Ground

MISCELLANEOUS

PART NO.	DESCRIPTION
EP91X97	CABINET BOTTOM-Black, Plastic

(OPTIONAL) STORAGE CABINET (STG762) (BOTTOM STORAGE)

MISCELLANEOUS

PART NO.	DESCRIPTION
EP68X11	CASTER
EP73X31	DOOR-Glass
EP2X602	HINGE-Glass Doors
EP2X605	LATCH
EP2X608	SHELVE RETAINER
EP2X603	STRIKER PLATE

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

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TELEVISION PRODUCT SERVICE, PORTSMOUTH, VIRGINIA.
1/84 (SUPERSEDES 9/83)

CHECK SERVICE NUMBERS BEFORE ORDERING PARTS
The characters in parenthesis ( ) after descriptions refer to the last three characters on the serial number label.

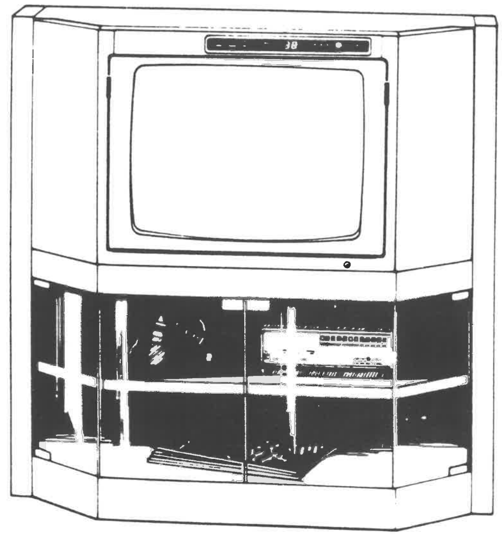
GENERAL ELECTRIC
TELEVISION
SERVICE INFORMATION

PM CHASSIS
19PMB760KA01
19PM4760KA01

GENERAL INFORMATION

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	PM-A
TUNING SYSTEM:	MP130
PICTURE TUBE:	* A48AAZ40X (19PMB760KA01)
PICTURE TUBE:	* 19VMZP22 (19PM4760KA01)
UHF/VHF TUNER:	* EP93X502
AUDIO/VIDEO CIRCUIT BOARD:	EP93X436
DUAL 10 WATT AUDIO CIRCUIT BOARD:	EP93X437
LIGHT DEPENDENT RESISTOR BD:	EP41X144
POWER SUPPLY CIRCUIT BOARD:	EP93X431
SOUND PLUS CIRCUIT BOARD:	EP93X438
REMOTE CONTROL RECEIVER MODULE:	EP93X483
REMOTE CONTROL TRANSMITTER:	EP62X179
TOP TUNING BOARD:	EP93X489
VIR MODULE:	EP93X462
SPEAKER: 8 Ohm, 2" Tweeter	EP95X41 (2 Used)
SPEAKER: 8 Ohm, 4" Woofer	EP95X40 (2 Used)
MP130 TUNER CONTROL BOARD:	EP93X464
USER'S MANUAL:	29-9313-83



19PM4760K
Shown on optional Storage Coordinate, CRD760

CABINET AND APPEARANCE REPLACEMENT PARTS LIST

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4150	EP49X492	BALANCE-15K ohm, 20%
R4155	EP49X492	BASS-15K ohm, 20%
R4160	EP49X492	TREBLE-15K ohm, 20%
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K ohm, 20%
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R5010	EP49X458	AUDIO LEVEL-50K ohm, 20% (Front)
R5011	EP49X458	AUDIO LEVEL-50K ohm, 20% (Rear)
R5260	EP49X395	SHARPNESS-1K ohm, 20%
* SW4001	EP39X206	SWITCH-On/Off, Push
SW4002	EP39X206	SWITCH-Vol Up, Push
SW4003	EP39X206	SWITCH-Vol Down, Push
SW4004	EP39X206	SWITCH-Channel Up, Push
SW4005	EP39X206	SWITCH-Channel Down, Push
SW4006	EP39X206	SWITCH-T.V., Push
SW4007	EP39X206	SWITCH-Video I, Push
SW4008	EP39X206	SWITCH-Video II, Push
SW4011	EP39X207	SWITCH-Loudness/Defeat
SW4012	EP39X207	SWITCH-Mono/Stereo
SW4014	EP39X207	SWITCH-Manual/VIR
S5000	ES39X21	SWITCH-Mono/Stereo (Video I), Slide
S5001	ES39X21	SWITCH-Mono/Stereo (Video II), Slide
SW5008	EP39X146	SWITCH-Cable Select, Slide Type
S5300	EP39X204	SWITCH-On/Off External Amplifiers, Slide Type, DPDT

KNOBS

PART NO.	DESCRIPTION
EP47X59	On/Off, Vol. Up, Vol. Down, Channel Up, Channel Down
EP47X60	Color, Tint, Brightness, Picture, Balance, Treble, & Bass
EP47X61	Loudness, Stereo, & VIR
EP47X62	TV, Video I & Video II

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP37X76	AMP/SPEAKER JACK ASM-External Speaker Hook-Up
EP83X13	ANTENNA-UHF Bowtie Type
EP83X17	ANTENNA-VHF, Fold-Down
EP37X70	ANTENNA TERMINAL BOARD-Complete
EP98X479	BACK-Plastic
EP2X585	BRACKET-VHF Antenna Mounting, Plastic
ES3X29	CLIP-Antenna Terminal
*EP66X19	CORD-AC Power, Polarized
EP4X175	COVER-Service Information, Black, Plastic
EP4X422	COVERS-Speakers On Back, Right & Left, Black, Hardboard
EP8X128	JACK-Headphone J4000
EP8X127	JACK-Video 1, Phono Type, J5001
EP8X127	JACK-Audio Left, Phono Type, J5002
EP8X127	JACK-Audio Right, Phono Type, J5003
EP8X127	JACK-Video 2, Phono Type, J5004
EP8X127	JACK-Audio Left, Phono Type, J5005
EP8X127	JACK-Audio Right, Phono Type, J5006
EP8X127	JACK-Video Out, Phono Type, J5007

(CON'T)

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

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CABINET BACK PARTS (CON'T)

EP8X127	JACK-Fix Audio Out Left, Phono Type, J5008
EP8X127	JACK-Fix Audio Out Right, Phono Type, J5009
EP8X127	JACK-Stereo IF Input, Phono Type, J5102
EP8X127	JACK-External Amplifiers, Phono Type, J5015/J5016
EP8X119	JACK-External Speakers, Telephone Type, J5200/J5201
EP4X427	OVERLAY-Rear Controls, Alum.
EP1X33	RIVET-Plastic
EP34X70	SOCKET-External Stereo, 8-Pins, J5100
EP8X129	TERMINAL-Speaker Hook-Up, 4 Pos.

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP99X480	FRONT-Black, Plastic (19PMB760KA01)
EP99X448	FRONT-Black, Plastic (19PM4760KA01)
EP41X142	CHANNEL NUMBER READOUT DISPLAY-Green
EP3X54	CUSHION-Switch Pads, Foam
EP4X423	DOOR ASM-Keyboard Access, Silver
EP4X426	DOOR HINGE-Right & Left
EP2X583	DOOR LATCH-Lexan
EP89X490	GRILLE ASSEMBLIES-Speakers, Right & Left
EP2X584	LIGHT PIPE-Light Sensor, Plastic, W/Spacer
EP4X425	OVERLAY-Primary Controls, Black, Lexan
EP4X424	OVERLAY-Secondary Controls, Black, Lexan
EP41X14	PILOT LIGHT-Stereo Indicator, Red, Y4001
EP41X14	PILOT LIGHT-Bilingual Indicator, Red, Y4002
EP41X14	PILOT LIGHT-VIR Indicator, Red, Y4003
EP1X46	RETAINER-Fastner For Speaker Mounting (16 Used)
EP94X6	WINDOW-CRT Cover, Glass (19PMB760KA01)
EP94X3	WINDOW-CRT Cover, Glass (19PM4760KA01)
EP2X572	WINDOW GUIDE-Plastic (2 Used)
EP2X571	WINDOW RETAINER-Plastic (1 Used)

MISCELLANEOUS

PART NO.	DESCRIPTION
EP48X18	CABINET ASM-Wood
EP91X97	CABINET BOTTOM-Plastic

CO-ORDINATE STAND (CRD760B)

PART NO.	DESCRIPTION
EP68X7	CASTER-W/Socket
EP73X27	GLASS DOOR-Either Side
EP4X431	HINGE-Either Side
EP2X586	LATCH-Glass Doors
EP2X587	PLATE-Striker, For Glass Doors

PM CHASSIS
19PMB762KA01
19PM4762KA01

GENERAL ELECTRIC

TELEVISION

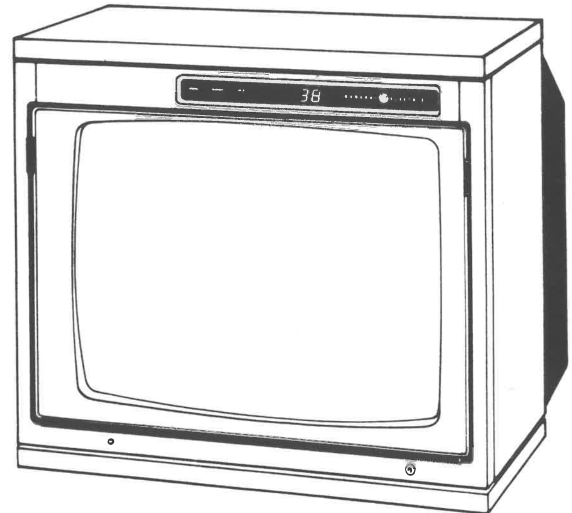
SERVICE INFORMATION

CHECK SERVICE NUMBERS BEFORE ORDERING PARTS
The characters in parenthesis ( ) after descriptions refer to the last three characters on the serial number label.

GENERAL INFORMATION

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	PM-A
TUNING SYSTEM:	MP130
PICTURE TUBE:	* A48AAZ40X (19PMB762KA01)
PICTURE TUBE:	* 19VMZP22 (19PM4762KA01)
UHF/VHF TUNER:	* EP93X502
AUDIO/VIDEO CIRCUIT BOARD:	EP93X436
LIGHT DEPENDENT RESISTOR BOARD:	EP41X144
POWER SUPPLY CIRCUIT BOARD:	EP93X431
REMOTE CONTROL RECEIVER MODULE:	EP93X483
REMOTE CONTROL TRANSMITTER:	EP62X179
SOUND PLUS BOARD:	EP93X438
TOP TUNING BOARD:	EP93X489
VIR MODULE:	EP93X462
MP130 TUNER CONTROL BOARD:	EP93X464
USER'S MANUAL:	29-9339-83



19PMB762K/19PM4762K

CABINET AND APPEARANCE REPLACEMENT PARTS LIST

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4150	EP49X492	BALANCE-15K ohm, 20%
R4155	EP49X492	BASS-15K ohm, 20%
R4160	EP49X492	TREBLE-15K ohm, 20%
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K ohm, 20%
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R5010	EP49X458	AUDIO LEVEL-50K ohm, 20%
R5011	EP49X458	AUDIO LEVEL-50K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%
* SW4001	EP39X206	SWITCH-On/Off, Push
SW4002	EP39X206	SWITCH-Vol. Up, Push
SW4003	EP39X206	SWITCH-Vol. Down, Push
SW4004	EP39X206	SWITCH-Channel Up, Push
SW4005	EP39X206	SWITCH-Channel Down, Push
SW4006	EP39X206	SWITCH-T.V., Push
SW4007	EP39X206	SWITCH-Video I, Push
SW4008	EP39X206	SWITCH-Video II, Push
SW4011	EP39X207	SWITCH-Loudness/Defeat, Push
SW4012	EP39X207	SWITCH-Mono/Stereo, Push
SW4014	EP39X207	SWITCH-Manual/VIR, Push
SW5000	ES39X21	SWITCH-Mono/Stereo (Video I), Slide Type
SW5001	ES39X21	SWITCH-Mono/Stereo (Video II), Slide Type
SW5008	EP39X146	SWITCH-Cable Select, Slide Type
SW5300	EP39X204	SWITCH-On/Off External Amplifiers DPDT, Slide Type

KNOBS

PART NO.	DESCRIPTION
EP47X59	ON/OFF, Vol. Up, Vol. Down, Channel Up, & Channel Down
EP47X60	Color, Tint, Brightness, & Picture
EP47X60	Balance, Treble, & Bass
EP47X61	Loudness, Stereo, & VIR
EP47X62	TV, Video I, & Video II

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP37X74	AMP/SPEAKER JACK ASM-Speaker Hook-Up
EP37X70	ANTENNA TERMINAL BOARD-Complete
EP98X506	BACK-Black, Plastic
EP2X606	BRACKET-Antenna, Plastic
ES3X29	CLIP-Antenna Terminal
EP2X540	CLIP-Power Cord Retainer
*EP66X19	CORD-AC Power, Polarized
EP4X175	COVER-Service Information, Black, Plastic
EP8X128	JACK-Headphone, Telephone Type, J4000
EP8X127	JACK-Phono Type, J5001 Thru J5009
EP8X127	JACK-External Amplifiers, Phono Type, J5015/J5016
EP8X127	JACK-Stereo IF Input, Phono Type, J5102
EP4X427	OVERLAY-Rear Controls, Metal
EP34X70	SOCKET-External Stereo, 8 Pins
EP8X129	TERMINAL-Speaker Hook-Up, 4 Pos.

(CON'T)

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN COMPONENT REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. THE (*) BESIDE A PART IN THE PARTS LIST AND THE SHADED AREAS OF THE SCHEMATIC DIAGRAM DESIGNATES COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE. IT IS PARTICULARLY RECOMMENDED THAT EXACT CATALOGED PARTS BE USED FOR REPLACEMENT OF COMPONENTS WHICH ARE DESIGNATED BY A (*) IN THE PARTS LIST AND THE SHADED AREAS ON THE SCHEMATIC DIAGRAM.
USE OF SUBSTITUTE REPLACEMENT PARTS WHICH DO NOT HAVE THE SAME SAFETY CHARACTERISTICS AS RECOMMENDED IN FACTORY SERVICE INFORMATION MAY CREATE SHOCK, FIRE OR OTHER HAZARDS, OR EXCESSIVE X-RADIATION.

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP99X480	CABINET FRONT-Black, Plastic (19PMB762KA01)
EP99X448	CABINET FRONT-Black, Plastic (19PM4762KA01)
EP41X142	CHANNEL NUMBER READOUT DISPLAY-Green
EP91X113	DOOR-Top Tuning, Silver, Plastic
EP4X426	DOOR HINGE
EP2X607	DOOR LATCH-Right & Lefthand Side
EP2X584	LIGHT PIPE-Light Sensor, Plastic, W/Spacer
EP4X425	OVERLAY-Primary Controls, Black, Lexan
EP4X424	OVERLAY-Secondary Controls, Black, Lexan
EP41X14	PILOT LIGHT-Stereo/Bilingual, Red, Y4001/Y4002
EP41X14	PILOT LIGHT-VIR, Red, Y4003
EP2X571	RETAINER-Glass Window (1 Used)
EP3X54	SWITCH PAD-Foam
EP2X534	SPRING-CRT Ground
EP94X6	WINDOW-Glass, CRT Cover (19PMB762KA01)
EP94X3	WINDOW-Glass, CRT Cover (19PM4762KA01)
EP2X572	WINDOW-Slide (2 Used)

MISCELLANEOUS

PART NO.	DESCRIPTION
EP91X112	CABINET BOTTOM-Plastic
EP97X108	CABINET WRAP-Top & Sides, Teak Woodgrain, Metal

(OPTIONAL) STORAGE CABINET (STG762)

(BOTTOM STORAGE)

MISCELLANEOUS

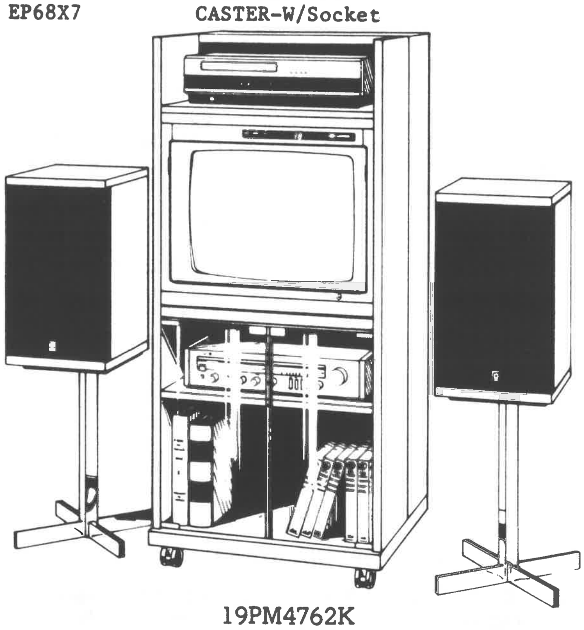
PART NO.	DESCRIPTION
EP68X11	CASTER
EP73X31	DOOR-Glass
EP2X602	HINGE-Glass Doors
EP2X605	LATCH
EP2X608	SHELVE RETAINER
EP2X603	STRIKER PLATE

(OPTIONAL) CABINET BASE (CRD762)

(BASE STORAGE)

MISCELLANEOUS

PART NO.	DESCRIPTION
EP68X7	CASTER-W/Socket



19PM4762K
Monitor with optional RCK762 Vertical Rack and SPK762 Speakers on SPS762 Stands.

STEREO SPEAKER (SPK762)

MISCELLANEOUS

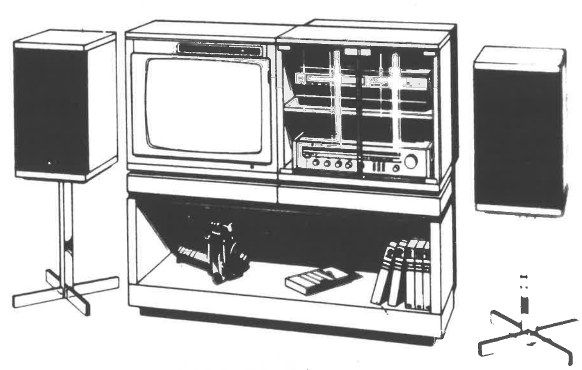
PART NO.	DESCRIPTION
EP31X106	3.3uf, 20%, 16V, Bi Polar, Elect.
EP8X133	CABLE-From Speaker To T.V.
EP4X420	OVERLAY-GE Nameplate
EP89X513	GRILLE CLOTH
EP95X43	SPEAKER-Woofer, 8"
EP95X44	SPEAKER-Tweeter, 2"
EP37X73	TERMINAL BLOCK-Plastic
	STAND-For Speaker (Optional) SPS762

(OPTIONAL) STORAGE CABINET (RCK762)

(TOP AND BOTTOM STORAGE)

MISCELLANEOUS

PART NO.	DESCRIPTION
EP68X11	CASTER
EP73X32	DOOR-Glass
EP2X602	HINGE-Glass Doors
EP2X605	LATCH
EP2X608	SHELVE RETAINER
EP2X603	STRIKER PLATE



19PM4762K
Monitor with optional STG762 Storage Unit, CRD762 Coordinate Base and SPK762 Speakers on SPS762 Stands

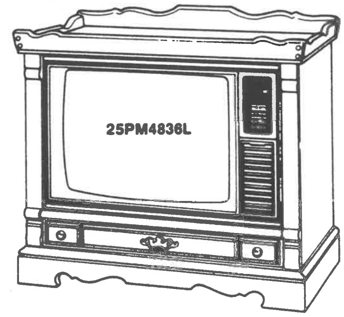
1/84 (SUPERSEDES 9/83)

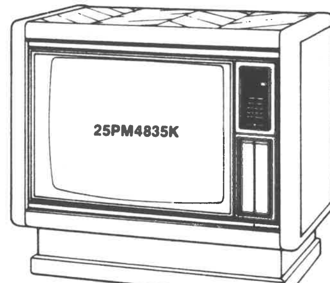
GENERAL ELECTRIC

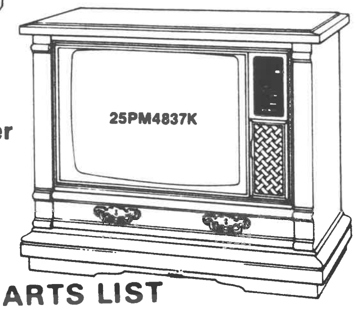
TELEVISION

SERVICE INFORMATION

TELEVISION
PM CHASSIS
25PM4835KA01
25PM4836LA01
25PM4837KA01







GENERAL INFORMATION

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	PM-A
TUNING SYSTEM:	KMPS130
PICTURE TUBE:	* A63ABZ06X
UHF/VHF TUNER:	* EP93X502
AUDIO CIRCUIT BOARD:	EP93X439
LIGHT DEPENDENT RESISTOR BD:	EP41X144
POWER SUPPLY CIRCUIT BOARD:	EP93X430
VIR MODULE:	EP93X462
SPEAKER: 16 ohm, 4"	EP95X25
KMPS130 TUNER CONTROL BOARD:	EP93X467
USER'S MANUAL:	29-9316-83

* Replace picture tube only with original type number or factory approved substitute.

The characters in brackets - [ ] - after some part descriptions refer to the last three characters in the service number. The service number is printed either on the serial number label or a separate label attached to the back of the receiver.

Check Service Number before ordering parts.

CABINET AND APPEARANCE REPLACEMENT PARTS LIST

CAT. NO. DESCRIPTION

CONTROLS

PART NO.	REF. NO.	DESCRIPTION
EP49X412	R4220	BRIGHTNESS-10K ohm, 20%
EP49X493	R4260	PICTURE-10K ohm, 20%
EP49X412	R4300	TINT-10K ohm, 20%
EP49X412	R4301	COLOR-10K, 20%
EP49X488	R5010	AUDIO LEVEL-50K ohm, 20%
EP49X395	R5260	SHARPNESS-1K ohm, 20%
*EP39X202	S4000	SWITCH-On/Off, Push
EP39X146	SW5008	SWITCH-Cable Select, Slide Type
	S4014	SWITCH-VIR, DPDT
EP39X210	S4010	SWITCH-Internal/External Audio 4PDT
	S4200	SWITCH-TV/Video, 4DPT

KEYBOARD

PART NO.	DESCRIPTION
EP62X180	Vol., & Channel Select

KNOBS

PART NO.	DESCRIPTION
EP47X447	ON/OFF-Black & Chrome
EP47X63	VIR-Black & Chrome
EP47X63	TV/VIDEO-Black & Chrome
EP47X63	INTERNAL/EXTERNAL AUDIO-Black & Chrome

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP37X69	ANTENNA TERMINAL BOARD-Complete
EP98X499	BACK-Hardboard (25PM4835K)
EP98X500	BACK-Hardboard (25PM4836L)
EP98X501	BACK-Hardboard (25PM4837K)
ES3X29	CLIP-Antenna Terminal
EP2X540	CLIP-Power Cord Retainer
*EP66X19	CORD-AC Power, Polarized
EP4X169	COVER-Service Information, Black, Plastic
EP8X127	JACK-Phono Type, J5001/J5002/J5003/J5007/J5009
EP4X421	OVERLAY-Rear Controls, Metal
EP91X74	TUBE CAP-CRT Cover, Black Plastic

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP99X466	FRONT-Oak Woodgrain, Plastic
EP2X553	BRACKET-CRT Corner Mounting, Metal
EP41X142	CHANNEL NUMBER READOUT DISPLAY-Green
EP91X107	DOOR-Controls Cover (25PM4835K)
EP91X108	DOOR-Controls Cover (25PM4836L)
EP91X109	DOOR-Controls Cover (25PM4837K)
EP2X376	DOOR CATCH
EP2X554	DOOR HINGE
EP89X514	ESCUTCHEON-Upper Controls, Oak Woodgrain, Plastic
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP4X450	OVERLAY-"Color/Tint/Brightness/Picture, etc.", Metal
EP41X14	PILOT LIGHT-VIR Indicator, Red
EP41X14	PILOT LIGHT-Video Indicator, Red
EP1X33	RIVET-Hinge, Plastic
EP3X56	SPRING-CRT Ground (2 Used)

MISCELLANEOUS

PART NO.	DESCRIPTION
EP68X7	CASTER-W/Socket
EP4X182	KNOB-Decorative (Order 2) (25PM4836L)
EP4X193	PULL-Decorative (25PM4836L)
EP4X188	PULL-Decorative (Order 2) (25PM4837K)

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

GENERAL ELECTRIC

TELEVISION

SERVICE INFORMATION

TELEVISION
PM CHASSIS
25PM4850KA01
25PM4851LA01
25PM4852KA01

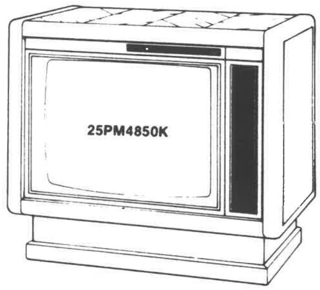
GENERAL INFORMATION

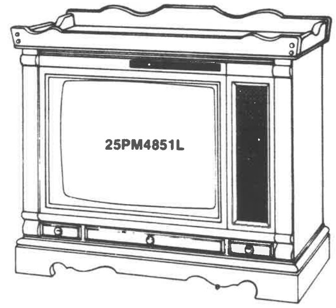
CHASSIS AND ASSEMBLY PARTS LIST

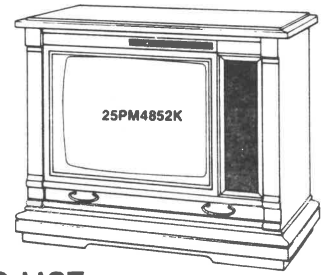
CHASSIS TYPE:	PM-A
TUNING SYSTEM:	MP130
PICTURE TUBE:	* A63ABZ06X
UHF/VHF TUNER:	* EP93X502
AUDIO CIRCUIT BOARD:	EP93X439
LIGHT DEPENDENT RESISTOR BD:	EP41X144
POWER SUPPLY CIRCUIT BOARD:	EP93X430
REMOTE CONTROL RECEIVER MODULE:	EP93X482
REMOTE CONTROL TRANSMITTER:	EP62X165
TOP TUNING BOARD:	EP93X500
VIR MODULE:	EP93X462
SPEAKER: 16 ohm, 4"	EP95X25
MP130 TUNER CONTROL BOARD:	EP93X464
USER'S MANUAL:	29-9318-83

* Replace picture tube only with original type number or factory approved substitute.

The characters in brackets - [ ] - after some part descriptions refer to the last three characters in the service number. The service number is printed either on the serial number label or a separate label attached to the back of the receiver.







Check Service Number before ordering parts.

CABINET AND APPEARANCE REPLACEMENT PARTS LIST

CAT. NO. DESCRIPTION

CONTROLS

PART NO.	REF. NO.	DESCRIPTION
EP49X491	R4220	BRIGHTNESS-10K ohm, 20%
EP49X495	R4260	PICTURE-10K ohm, 20%
EP49X491	R4300	TINT-10K ohm, 20%
EP49X491	R4301	COLOR-10K ohm, 20%
EP49X488	R5010	AUDIO LEVEL-50K ohm, 20%
EP49X395	R5260	SHARPNESS-1K ohm, 20%
*EP39X206	SW4001	SWITCH-On/Off, Push
EP39X206	SW4002	SWITCH-Vol. Up, Push
EP39X206	SW4003	SWITCH-Vol. Down, Push
EP39X206	SW4004	SWITCH-Channel Up, Push
EP39X206	SW4005	SWITCH-Channel Down, Push
EP39X208	S4010	SWITCH-Internal/External, DP 2 Pos.
EP39X207	S4014	SWITCH-Manual/VIR, Push
EP39X209	S4200	SWITCH-Audio/Video, 2 Pos.
EP39X146	SW5008	SWITCH-Cable Select, Slide Type

KNOBS

PART NO.	DESCRIPTION
EP47X59	On/Off, Vol Up, Vol Down, Channel Up, & Channel Down
EP47X60	Color, Tint, Brightness, & Picture, W/Retainer
EP47X61	VIR
EP47X60	Audio, & Video, W/Retainer

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP37X69	ANTENNA TERMINAL BOARD-Complete
EP98X502	BACK-Hardboard (25PM4850K)
EP98X503	BACK-Hardboard (25PM4851L)
EP98X504	BACK-Hardboard (25PM4852K)
ES3X29	CLIP-Antenna Terminal

CAT. NO. DESCRIPTION

EP2X340	CLIP-Power Cord Retainer
*EP66X19	CORD-AC Power, Polarized
EP4X169	COVER-Service Information, Black, Plastic
EP8X127	JACK-Phono Type, J5001/J5002/J5003/J5007/J5009
EP4X421	OVERLAY-Rear Controls, Metal
EP91X74	TUBE CAP-CRT Cover, Black Plastic

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP99X467	FRONT-Black, Plastic (25PM4850K/4852K)
EP99X468	FRONT-Black, Plastic (25PM4851L)
EP2X594	BRACKET-CRT Corner Mounting, Metal
EP41X142	CHANNEL NUMBER READOUT DISPLAY-Green
EP91X110	DOOR-Top Tuning, Across The Top (25PM4850K/4852K)
EP91X111	DOOR-Top Tuning, Across The Top (25PM4851L)
EP2X596	DOOR CATCH-Lexan
EP2X593	DOOR HINGES-Pin
EP2X607	DOOR LATCH
EP2X591	DOOR PULL
EP89X515	GRILLE CLOTH-Speaker (25PM4850K)
EP89X516	GRILLE CLOTH-Speaker (25PM4851L)
EP89X517	GRILLE CLOTH-Speaker (25PM4852K)
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP4X441	OVERLAY-Top Tuning, Black
EP4X442	OVERLAY-Top Secondary Controls, Black
EP41X14	PILOT LIGHT-Stereo, Red, Y4001
EP41X14	PILOT LIGHT-VIR, Red, Y4003
EP3X56	SPRING-CRT Ground
EP3X54	SWITCH PAD-Foam

MISCELLANEOUS

PART NO.	DESCRIPTION
EP68X7	CASTER-W/Socket
EP4X182	KNOB-Decorative (Order 3) (25PM4851L)

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN COMPONENT REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. THE (★) BESIDE A PART IN THE PARTS LIST AND THE SHADED AREAS OF THE SCHEMATIC DIAGRAM DESIGNATES COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE. IT IS PARTICULARLY RECOMMENDED THAT EXACT CATALOGED PARTS BE USED FOR REPLACEMENT OF COMPONENTS WHICH ARE DESIGNATED BY A (★) IN THE PARTS LIST AND THE SHADED AREAS ON THE SCHEMATIC DIAGRAM. USE OF SUBSTITUTE REPLACEMENT PARTS WHICH DO NOT HAVE THE SAME SAFETY CHARACTERISTICS AS RECOMMENDED IN FACTORY SERVICE INFORMATION MAY CREATE SHOCK, FIRE, OR OTHER HAZARDS, OR EXCESSIVE X-RADIATION.

CHECK SERVICE NUMBERS BEFORE ORDERING PARTS
The characters in parenthesis ( ) after descriptions refer to the last three characters on the serial number label.

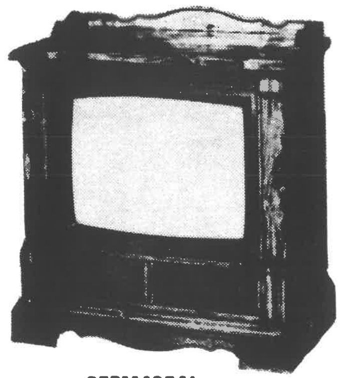
GENERAL ELECTRIC TELEVISION SERVICE INFORMATION

PM CHASSIS
25PM4853KA01
25PM4854LA01
25PM4855KA01

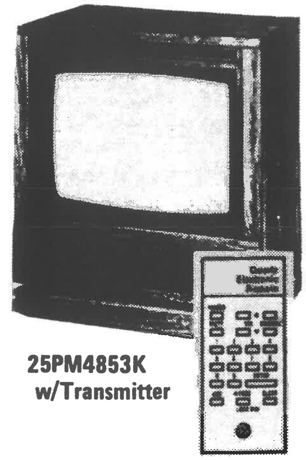
GENERAL INFORMATION

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	25" PM-A
TUNING SYSTEM:	MP130
PICTURE TUBE:	* A63ABZ40X
UHF/VHF TUNER:	* EP93X502
AUDIO CIRCUIT BOARD:	EP93X439
POWER SUPPLY CIRCUIT BOARD:	EP93X430
REMOTE CONTROL RECEIVER MODULE:	EP93X482
REMOTE CONTROL TRANSMITTER:	EP62X165
TOP TUNING BOARD:	EP93X500
VIR MODULE:	EP93X462
SPEAKER: 8 ohm, 4"	EP95X40 (2 Used)
MP130 TUNER CONTROL BOARD:	EP93X464
USER'S MANUAL:	29-9318-83



25PM4854L



25PM4853K w/Transmitter

CABINET AND APPEARANCE REPLACEMENT PARTS LIST

CONTROLS

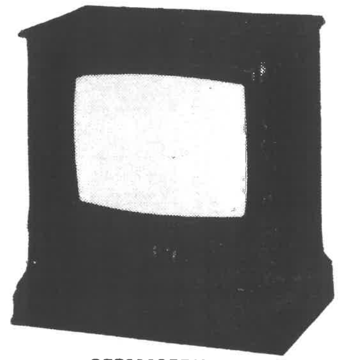
REF. NO.	PART NO.	DESCRIPTION
R4220	EP49X491	BRIGHTNESS-10 ohm, 20%
R4260	EP49X495	PICTURE-10K ohm, 20%
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R5010	EP49X488	AUDIO LEVEL-50K ohm, 20%
R5260	EP39X395	SHARPNESS-1K ohm, 20%
S4010	EP39X208	SWITCH-Internal/External Audio, DP 2 Pos.
S4200	EP39X209	SWITCH-Antenna Video, 2 Pos.
* SW4001	EP39X206	SWITCH-On/Off, Push
SW4002	EP39X206	SWITCH-Vol. Up, Push
SW4003	EP39X206	SWITCH-Vol. Down, Push
SW4004	EP39X206	SWITCH-Channel Up, Push
SW4005	EP39X206	SWITCH-Channel Down, Push
SW4014	EP39X207	SWITCH-Manual/VIR, Push
SW5008	EP39X146	SWITCH-Cable Select, Slide Type

KNOBS

PART NO.	DESCRIPTION
EP47X60	Color, Tint, Brightness, & Picture, W/Retainer
EP47X60	Audio, & Video, W/Retainer
EP47X59	ON/OFF, Vol. Up, Vol. Down, Channel Up, & Channel down
EP47X61	VIR

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP37X69	ANTENNA TERMINAL BOARD-Complete
EP98X515	CABINET BACK-Hardboard (25PM4853K)
EP98X516	CABINET BACK-Hardboard (25PM4854K)
EP98X505	CABINET BACK-Hardboard (25PM4855K)
ES3X29	CLIP-Antenna Terminal
EP2X540	CLIP-Power Cord Retainer
*EP66X19	CORD-AC Power, Polarized
EP4X169	COVER-Service Information, Black, Plastic
EP8X127	JACK-Phono, J5001, J5002, J5003, J5007, J5009
EP4X421	OVERLAY-Rear Controls, Alum
EP91X74	TUBE CAP-CRT Cover, Black Plastic



25PM4855K

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP2X594	BRACKET-CRT Corner Mounting, Metal
EP2X542	BRACKET-VIR Board Support, Plastic
EP99X464	CABINET FRONT-Black, Plastic
EP91X111	DOOR-Top Tuning Controls
EP2X596	DOOR CATCH-Lexan
EP2X593	DOOR HINGE-Plastic Pins
EP2X607	DOOR LATCH
EP2X591	DOOR PULL
EP89X532	GRILLE CLOTH-Speaker (25PM4853KA01)
EP89X533	GRILLE CLOTH-Speaker (2 Used) (25PM4854KA01)
EP89X531	GRILLE CLOTH-Speaker (2 Used) (25PM4855KA01)
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP4X441	OVERLAY-Top Tuning Controls, Black
EP4X442	OVERLAY-Secondary Controls, Black
EP41X14	PILOT LIGHT-VIR, Red, Y4003
EP41X14	PILOT LIGHT-Stereo, Red, Y4001
EP3X56	SPRING-CRT Ground
EP3X54	SWITCH PAD-Foam

MISCELLANEOUS

PART NO.	DESCRIPTION
EP68X7	CASTER-W/Socket

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

GENERAL ELECTRIC

TELEVISION

SERVICE INFORMATION

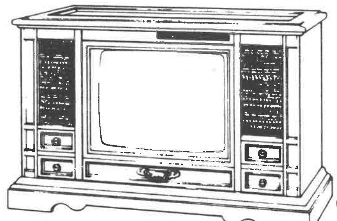
TELEVISION
PM CHASSIS
25PM4856KA01
25PM4857KA01

Check Service Number before ordering parts.

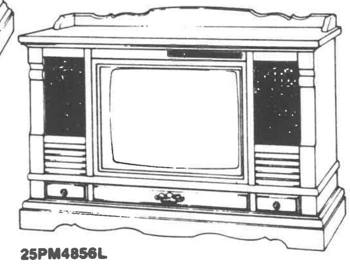
GENERAL INFORMATION

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	PM-A
TUNING SYSTEM:	MP130
PICTURE TUBE:	* A63ABZ06X
UHF/VHF TUNER:	* EP93X502
AUDIO/VIDEO CIRCUIT BOARD:	EP93X436
DUAL 10 WATT AUDIO CIRCUIT BOARD:	EP93X437
LIGHT DEPENDENT RESISTOR BD:	EP41X144
POWER SUPPLY CIRCUIT BOARD:	EP93X431
REMOTE CONTROL RECEIVER MODULE:	EP93X480
REMOTE CONTROL TRANSMITTER:	EP62X179
SOUND PLUS CIRCUIT BOARD:	EP93X438
TOP TUNING CIRCUIT BOARD:	EP93X489
VIR MODULE:	EP93X462
SPEAKER: 8 ohm, 6 1/2"	EP95X39 (2 Used)
SPEAKER: 8 ohm, 2"	EP95X41 (2 Used)
MP130 TUNER CONTROL BOARD:	EP93X464
USER'S MANUAL:	29-9319-83



25PM4857K



25PM4856L

CABINET AND APPEARANCE REPLACEMENT PARTS LIST

CAT. NO. DESCRIPTION

CONTROLS

PART NO.	REF. NO.	DESCRIPTION
EP49X492	R4150	BALANCE-15K ohm, 20%
EP49X492	R4155	BASS-15K ohm, 20%
EP49X492	R4160	TREBLE-15K ohm, 20%
EP49X491	R4220	BRIGHTNESS-10K ohm, 20%
EP49X495	R4260	PICTURE-10K ohm, 20%
EP49X491	R4300	TINT-10K ohm, 20%
EP49X491	R4301	COLOR-10K ohm, 20%
EP49X458	R5010	AUDIO LEVEL-Front, 50K ohm, 20%
EP49X458	R5011	AUDIO LEVEL-Rear, 50K ohm, 20%
EP49X395	R5260	SHARPNESS-1K ohm, 20%
*EP39X206	SW4001	SWITCH-On/Off, Push
EP39X206	SW4002	SWITCH-Vol. Up, Push
EP39X206	SW4003	SWITCH-Vol. Down, Push
EP39X206	SW4004	SWITCH-Channel Up, Push
EP39X206	SW4005	SWITCH-Channel Down, Push
EP39X206	SW4006	SWITCH-T.V., Push
EP39X206	SW4007	SWITCH-Video 1, Push
EP39X206	SW4008	SWITCH-Video 2, Push
EP39X207	SW4011	SWITCH-Loudness/Defeat, Push
EP39X207	SW4012	SWITCH-Mono/Stereo, Push
EP39X207	SW4014	SWITCH-Manual/VIR, Push
ES39X21	S5000	SWITCH-Mono/Stereo (Video 1)
ES39X21	S5001	SWITCH-Mono/Stereo (Video 2)
EP39X146	SW5008	SWITCH-Cable Select, Slide Type
EP39X204	SW5300	SWITCH-On/Off External Amplifiers

KNOBS

PART NO.	DESCRIPTION
EP47X59	BUTTON-On/Off, Vol., Channel Up & Channel Down
EP47X60	BUTTON-Color, Tint, Brightness, Picture, Balance, Treble & Bass
EP47X61	BUTTON-Loud, Stereo & VIR
EP47X62	BUTTON-TV, Video I, & Video II

CAT. NO. DESCRIPTION

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP37X70	ANTENNA TERMINAL BOARD-Complete
EP98X495	BACK-Hardboard (25PM4856L)
EP98X496	BACK-Hardboard (25PM4857K)
ES3X29	CLIP-Antenna Terminal
EP2X540	CLIP-Power Cord Retainer
*EP66X19	CORD-AC Power, Polarized
EP4X169	COVER-Service Information, Black, Plastic
EP8X127	JACK-Video I, Phono Type, J5001
EP8X127	JACK-Audio Left, Phono Type, J5002
EP8X127	JACK-Audio Right, Phono Type, J5003
EP8X127	JACK-Video II, Phono Type, J5004
EP8X127	JACK-Audio Left, Phono Type, J5005
EP8X127	JACK-Audio Right, Phono Type, J5006
EP8X127	JACK-Video Out, Phono Type, J5007
EP8X127	JACK-Fix Audio Out Left, Phono Type, J5008
EP8X127	JACK-Fix Audio Out Right, Phono Type, J5009
EP8X127	JACK-External Amplifiers, Phono Type J5016/J5016
EP8X127	JACK-Stereo IF Input, Phono Type, J5102
EP8X119	JACK-External Speakers, Telephone Type J5200/J5201
EP4X427	OVERLAY-Rear Controls, Alum
EP34X70	SOCKET-External Stereo, 8 Pins, J5100
EP91X74	TUBE CAP-CRT Cover, Black Plastic

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP99X464	FRONT-Black, Plastic
EP2X594	BRACKET-CRT Corner Mounting, Metal
EP41X142	CHANNEL NUMBER READOUT DISPLAY-Green
EP91X104	DOOR-Top Tuning Across Top, Lexan
EP2X596	DOOR CATCH-Lexan
EP2X607	DOOR LATCH
EP2X591	DOOR PULL

Cont. on other side.

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

EP89X511	GRILLE CLOTH-Speakers (25PM4856L)
EP89X512	GRILLE CLOTH-Speakers (25PM4857K)
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP4X446	OVERLAY-Top Primary Controls
EP4X445	OVERLAY-Top Secondary Control, Black Plastic
EP41X14	PILOT LIGHT-Stereo/Bilingual, L4001/L4002, Red
EP41X14	PILOT LIGHT-VIR, Red, L4003
EP1X46	RETAINER-Speaker Grille Fastener (14 Used)
EP3X56	SPRING-CRT Ground (2 Used)
EP3X54	SWITCH PAD-Foam

MISCELLANEOUS

PART NO.	DESCRIPTION
EP68X7	CASTER-W/Socket
EP4X182	KNOB-Decorative, Order 2 (25PM4856L)
EP4X182	KNOB-Decorative, Order 4 (25PM4857K)
EP4X193	PULL-Decorative

CHECK SERVICE NUMBERS BEFORE ORDERING PARTS

The characters in parenthesis ( ) after descriptions refer to the last three characters on the serial number label.

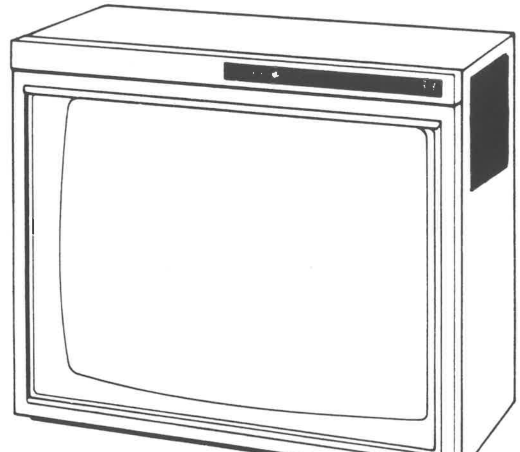
GENERAL ELECTRIC TELEVISION SERVICE INFORMATION

PM CHASSIS
25PM4860KA01

GENERAL INFORMATION

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	25" PM-A
TUNING SYSTEM:	MP130
PICTURE TUBE:	* A63ABZ40X
UHF/VHF TUNER:	* EP93X502
AUDIO CIRCUIT BOARD:	EP93X439
LIGHT DEPENDENT RESISTOR BOARD:	EP41X146
POWER SUPPLY CIRCUIT BOARD:	EP93X430
REMOTE CONTROL RECEIVER MODULE:	EP93X482
REMOTE CONTROL TRANSMITTER:	EP62X165
TOP TUNING BOARD:	EP93X500
VIR MODULE:	EP93X462
SPEAKER: 8 ohm, 4"	EP95X40 (2 Used)
MP130 TUNER CONTROL BOARD:	EP93X464
USER'S MANUAL:	29-9328-83



25PM4860K

CABINET AND APPEARANCE REPLACEMENT PARTS LIST

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K ohm, 20%
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%
* SW4001	EP39X206	SWITCH-On/Off, Push
SW4002	EP39X206	SWITCH-Vol. Up, Push
SW4003	EP39X206	SWITCH-Vol. Down, Push
SW4004	EP39X206	SWITCH-Channel Up, Push
SW4005	EP39X206	SWITCH-Channel Down, Push
SW4010	EP39X208	SWITCH-Internal/External Audio, DP 2 Pos.
SW4014	EP39X207	SWITCH-Manual/VIR, Push
SW4200	EP39X209	SWITCH-Antenna Video, Rotary, 2 Pos.
SW5008	EP39X146	SWITCH-Cable Select, Slide Type

KNOBS

PART NO.	DESCRIPTION
EP47X59	ON/OFF, Vol., Vol. Up, Vol. Down, Channel Up, & Channel Down
EP47X60	Color, Tint, Brightness, & Picture, W/Retainer
EP47X60	Audio, & Video, W/Retainer
EP47X61	VIR, Push-Push

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP83X13	ANTENNA-UHF Bowtie Type
EP83X17	ANTENNA-VHF, Fold-Down (2 Used)
EP37X69	ANTENNA TERMINAL BOARD-Complete
EP2X616	BRACKET-VHF Antenna Mounting, Plastic
EP98X517	CABINET BACK-Black, Plastic
ES3X29	CLIP-Antenna Terminal
EP2X540	CLIP-Power Cord Storage
*EP66X19	CORD-AC Power, Polarized
EP4X175	COVER-Service Information, Black, Plastic
EP8X127	JACK-Phono Type, J5001, J5002, J5003, J5007, & J5009
EP4X421	OVERLAY-Rear Controls, Alum
EP1X33	RIVET-Plastic

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP2X594	BRACKET-CRT Corner Mounting, Metal
EP2X542	BRACKET-VIR Board Support, Plastic
EP92X121	BRACKET-Module Mounting, Plastic
EP99X463	CABINET FRONT-Black, Plastic
EP97X110	CABINET WRAP-Top & Sides, Teak Woodgrain, Steel
EP41X142	CHANNEL NUMBER READOUT DISPLAY-Green
EP91X118	DOOR-Top Tuning Controls, Plastic
EP2X611	DOOR CATCH
EP2X593	DOOR HINGE-Plastic Pins
EP89X530	GRILLE CLOTH-Speaker
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP4X441	OVERLAY-Top Tuning Controls, Black
EP4X442	OVERLAY-Secondary Controls, Black
EP41X14	PILOT LIGHT-Stereo, Red, Y4001
EP41X14	PILOT LIGHT-VIR, Red, Y4003
EP3X54	SWITCH PADS-Foam
EP3X56	SPRING-CRT Ground

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

MISCELLANEOUS

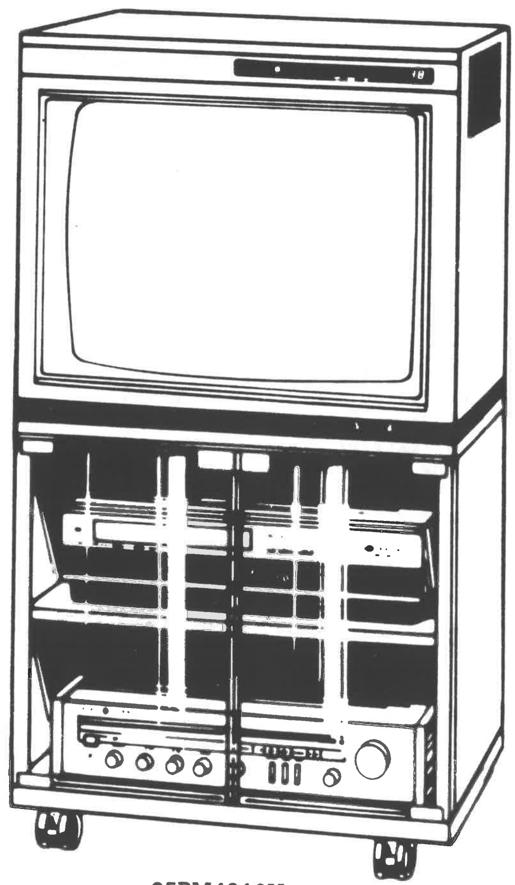
PART NO.	DESCRIPTION
EP91X117	CABINET BOTTOM-Black, Plastic

(OPTIONAL) STORAGE CABINET (CRD880)

(BOTTOM STORAGE)

MISCELLANEOUS

PART NO.	DESCRIPTION
EP68X11	CASTER
EP73X30	DOOR-Glass
EP2X602	HINGE-Glass Doors
EP2X605	LATCH
EP2X608	SHELVE RETAINER
EP2X603	STRIKER PLATE



25PM4860K

Monitor with optional CRD880 Storage Cabinet.

1/84 (SUPERSEDES 9/83)

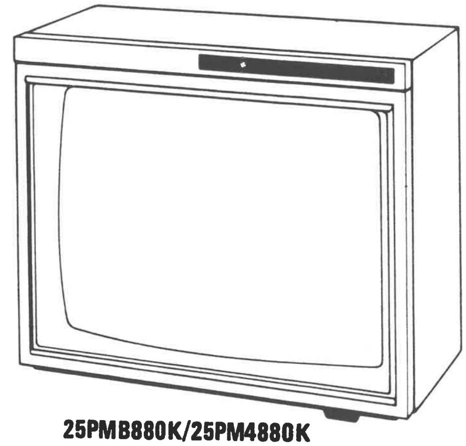
GENERAL ELECTRIC
TELEVISION
SERVICE INFORMATION

PM CHASSIS
25PMB880KA01
25PM4880KA01

GENERAL INFORMATION

CHASSIS AND ASSEMBLY PARTS LIST
START ON POSITION 40

CHASSIS TYPE:	PM-A
TUNING SYSTEM:	MP130
PICTURE TUBE:	* A63ABZ40X (25PMB880KA01)
PICTURE TUBE:	* 25VGYP22 (25PM4880KA01)
UHF/VHF TUNER:	* EP93X502
AUDIO/VIDEO CIRCUIT BOARD:	EP93X436
DUAL 10 WATT AUDIO CIRCUIT BOARD:	EP93X437
LIGHT DEPENDENT RESISTOR BD:	EP41X144
POWER SUPPLY CIRCUIT BOARD:	EP93X431
REMOTE CONTROL RECEIVER MODULE:	EP93X480
REMOTE CONTROL TRANSMITTER:	EP62X179
SOUND PLUS CIRCUIT BOARD:	EP93X438
TOP TUNING BOARD:	EP93X489
VIR MODULE:	EP93X462
SPEAKER: 8" Woofer	EP95X43
SPEAKER: 2" Tweeter	EP95X44
MP130 TUNER CONTROL BOARD:	EP93X464
USER'S MANUAL:	29-9320-83



25PMB880K/25PM4880K

CABINET AND APPEARANCE REPLACEMENT PARTS LIST

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4150	EP49X492	BALANCE-15K ohm, 20%
R4155	EP49X492	BASS-15K ohm, 20%
R4160	EP49X492	TREBLE-15K ohm, 20%
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K ohm, 20%
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R5010	EP49X458	AUDIO LEVEL-50K ohm, 20%
R5011	EP49X458	AUDIO LEVEL-50K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%
* SW4001	EP39X206	SWITCH-On/Off, Push
SW4002	EP39X206	SWITCH-Vol. Up, Push
SW4003	EP39X206	SWITCH-Vol. Down, Push
SW4004	EP39X206	SWITCH-Channel Up, Push
SW4005	EP39X206	SWITCH-Channel Down, Push
SW4006	EP39X206	SWITCH-T.V., Push
SW4007	EP39X206	SWITCH-Video I, Push
SW4008	EP39X206	SWITCH-Video II, Push
SW4011	EP39X207	SWITCH-Loudness/Defeat, Push
SW4012	EP39X207	SWITCH-Mono/Stereo, Push
SW4014	EP39X207	SWITCH-Manual/VIR, Push
SW5000	ES39X21	SWITCH-Mono/Stereo (Video I)
SW5001	ES39X21	SWITCH-Mono/Stereo (Video II)
SW5008	EP39X146	SWITCH-Cable Select, Slide Type
SW5300	EP39X204	SWITCH-On/Off External Amplifiers

KNOBS

PART NO.	DESCRIPTION
EP47X59	ON/OFF, Vol. Up, Vol. Down, Channel Up, & Channel Down
EP47X60	Color, Tint, Brightness, Picture, & Balance
EP47X60	Treble, & Bass
EP47X61	Loudness. Stereo, VIR
EP47X62	TV, Video I, Video II

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP37X75	AMP/SPEAKER JACK ASM-External Speaker Hook-Up
EP37X70	ANTENNA TERMINAL BOARD-Complete
EP98X497	BACK-Black Plastic
ES3X29	CLIP-Antenna Terminal
EP2X540	CLIP-Power Cord Retainer
*EP66X19	CORD-AC Power, Polarized
EP4X175	COVER-Service Information, Black, Plastic
EP8X127	JACK-Video I, Phono Type J5001
EP8X127	JACK-Audio Left, Phono Type J5002
EP8X127	JACK-Audio Right, Phono Type J5003
EP8X127	JACK-Video II, Phono Type J5004
EP8X127	JACK-Audio Left, Phono Type J5005
EP8X127	JACK-Audio Right, Phono Type J5006
EP8X127	JACK-Video Out, Phono Type J5007
EP8X127	JACK-Fix Audio Out Left, Phono Type J5008
EP8X127	JACK-Fix Audio Out Right, Phono Type J5009
EP8X127	JACK-External Amplifiers, Phono Type J5015/J5016
EP8X127	JACK-Stereo IF Input, Phono Type, J5102
EP4X427	OVERLAY-Rear Controls, Metal
EP34X70	SOCKET-External Stereo, 8 Pins
EP8X129	TERMINAL-Speaker Hoop-Up, 4 Pos.
EP91X74	TUBE CAP-CRT Cover, Plastic

(CON'T)

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP99X479	FRONT-Black, Plastic (25PMB880W)
EP99X463	FRONT-Black, Plastic (25PM4880W)
EP2X594	BRACKET-CRT Corner Mounting, Plastic
EP41X142	CHANNEL NUMBER READOUT DISPLAY-Green
EP91X105	DOOR-Top Tuning, Across The Top, Pull
EP2X611	DOOR CATCH-Lexan
EP2X601	DOOR HINGE-Top Tuning, Pivot, Right & Left Side
EP2X593	DOOR HINGE PIN
EP8X128	JACK-Headphone, Telephone Type, J4000
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP4X446	OVERLAY-Primary Controls
EP4X445	OVERLAY-Secondary Controls, Black, Plastic
EP41X14	PILOT LIGHT-Stereo & Bilingual Indicator, Y4001/Y4002, Red
EP41X14	PILOT LIGHT-VIR Indicator, Red, Y4003
EP2X592	RETAINER-Glass Window, Metal
EP2X600	RETAINER-Window Support, Sloted (8 Used)
EP3X54	SWITCH-Pad, Foam
EP94X5	WINDOW-Glass, CRT Cover (25PMB880W)
EP94X4	WINDOW-Glass, CRT Cover (25PM4880W)

MISCELLANEOUS

PART NO.	DESCRIPTION
EP91X106	CABINET BOTTOM-Black, Plastic
EP97X107	CABINET WRAP-Top & Sides, Teak Woodgrain, Metal

STEREO SPEAKER (SPK762)

MISCELLANEOUS

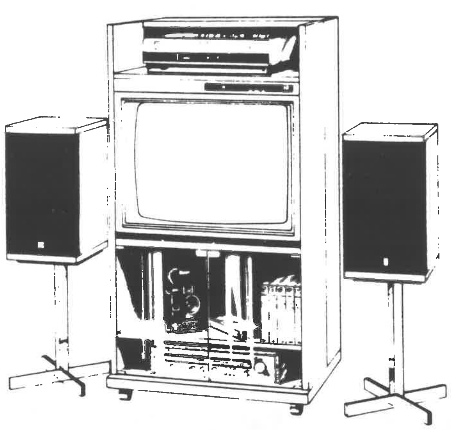
PART NO.	DESCRIPTION
EP31X106	3.3uf, 20%, 16V, Bi Polar, Elect.
EP8X133	CABLE-From Speaker To T.V.
EP4X420	OVERLAY-GE Nameplate
EP89X513	GRILLE CLOTH
EP95X43	SPEAKER-Woofer, 8"
EP95X44	SPEAKER-Tweeter, 2"
EP37X73	TERMINAL BLOCK-Plastic
	STAND-For Speaker (Optional) SPS762

(OPTIONAL) STORAGE CABINET (RCK880)

(TOP AND BOTTOM STORAGE)

MISCELLANEOUS

PART NO.	DESCRIPTION
EP68X11	CASTER
EP73X29	DOOR-Glass
EP2X602	HINGE-Glass Doors
EP2X605	LATCH
EP2X608	SHELVE RETAINER
EP2X603	STRIKER PLATE



25PM4880K

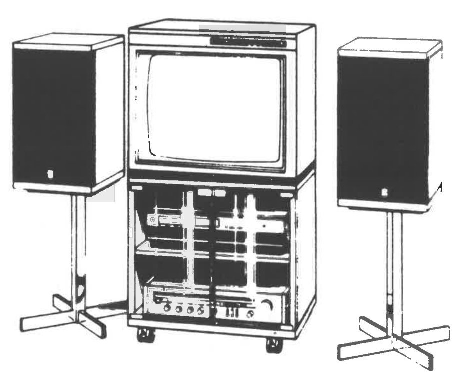
Monitor with optional RCK880 Rack and SPK762 Speakers on SPS762 Stands.

(OPTIONAL) STORAGE CABINET (CRD880)

(BOTTOM STORAGE)

MISCELLANEOUS

PART NO.	DESCRIPTION
EP68X11	CASTER
EP73X30	DOOR-Glass
EP2X602	HINGE-Glass Doors
EP2X605	LATCH
EP2X608	SHELVE RETAINER
EP2X603	STRIKER PLATE



25PM4880K

Monitor with optional CRD880 Storage Cabinet and SPK762 Speakers on SPS762 Stands.

CHECK SERVICE NUMBERS BEFORE ORDERING PARTS

The characters in parenthesis ( ) after descriptions refer to the last three characters on the serial number label.

GENERAL ELECTRIC

TELEVISION

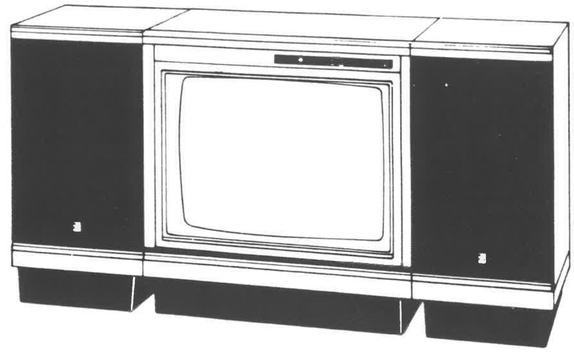
SERVICE INFORMATION

PM CHASSIS
25PMB885PA01
25PM4885PA01

GENERAL INFORMATION

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	PM-A
TUNING SYSTEM:	MP130
PICTURE TUBE:	* A63ABZ40X 25PMB885PA01
PICTURE TUBE:	* 25VGYP22 25PM4885PA01
UHF/VHF TUNER:	* EP93X502
AUDIO/VIDEO CIRCUIT BOARD:	EP93X436
DUAL 10 WATT AUDIO CIRCUIT BOARD:	EP93X437
LIGHT DEPENDENT RESISTOR BOARD:	EP41X144
POWER SUPPLY CIRCUIT BOARD:	EP93X431
REMOTE CONTROL RECEIVER MODULE:	EP93X480
REMOTE CONTROL TRANSMITTER:	EP62X179
SOUND PLUS BOARD:	EP93X438
TOP TUNING BOARD:	EP93X489
VIR MODULE:	EP93X462
SPEAKER: 10" Woofer	EP95X45
SPEAKER: 5" Mid Range	EP95X46
SPEAKER: 2" Tweeter	EP95X47
MP130 TUNER CONTROL BOARD:	EP93X464
USER'S MANUAL:	29-9320-83



25PMB885P/25PM4885P

CABINET AND APPEARANCE REPLACEMENT PARTS LIST

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4150	EP49X492	BALANCE-15K ohm, 20%
R4155	EP49X492	BASS-15K ohm, 20%
R4160	EP49X492	TREBLE-15K ohm, 20%
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K ohm, 20%
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R5010	EP49X458	AUDIO LEVEL-50K ohm, 20%
R5011	EP49X458	AUDIO LEVEL-50K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%
* SW4001	EP39X206	SWITCH-On/Off, Push
SW4002	EP39X206	SWITCH-Vol. Up, Push
SW4003	EP39X206	SWITCH-Vol. Down, Push
SW4004	EP39X206	SWITCH-Channel Up, Push
SW4005	EP39X206	SWITCH-Channel Down, Push
SW4006	EP39X206	SWITCH-T.V., Push
SW4007	EP39X206	SWITCH-Video I, Push
SW4008	EP39X206	SWITCH-Video II, Push
SW4011	EP39X207	SWITCH-Loudness/Defeat, Push
SW4012	EP39X207	SWITCH-Mono/Stereo, Push
SW4014	EP39X207	SWITCH-Manual/VIR, Push
S5000	ES39X21	SWITCH-Mono/Stereo (Video I), Slide Type
S5001	ES39X21	SWITCH-Mono/Stereo (Video II) Slide Type
SW5008	EP39X146	SWITCH-Cable Select, Slide Type
SW5300	EP39X204	SWITCH-On/Off External Amplifiers

KNOBS

PART NO.	DESCRIPTION
EP47X59	On/Off, Vol. Up, Vol. Down, Channel Up, & Channel Down
EP47X60	Color, Tint, Brightness, & Picture
EP47X60	Balance, Treble, & Bass
EP47X61	Loudness, Stereo, & VIR
EP47X62	TV, Video I, & Video II

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP37X70	ANTENNA TERMINAL BOARD-Complete
EP98X509	CABINET BACK-Hardboard
ES3X29	CLIP-Antenna Terminal
EP2X540	CLIP-Power Cord Retainer
*EP66X19	CORD-AC Power, Polarized
EP4X169	COVER-Service Information, Black, Plastic
EP8X127	JACK-Phono Type, J5001 Thru J5009
EP8X127	JACK-External Amplifiers, Phono Type, J5015/J5016
EP8X127	JACK-Stereo IF Input, J5102
EP4X427	OVERLAY-Rear Control, Metal
EP37X78	SPEAKER TERMINAL BOARD-Complete
EP34X70	SOCKET-External Stereo, 8 Pins, J5100
EP91X74	TUBE CAP-CRT Cover, Black Plastic

(CON'T)

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN COMPONENT REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. THE (*) BESIDE A PART IN THE PARTS LIST AND THE SHADED AREAS OF THE SCHEMATIC DIAGRAM DESIGNATES COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE. IT IS PARTICULARLY RECOMMENDED THAT EXACT CATALOGED PARTS BE USED FOR REPLACEMENT OF COMPONENTS WHICH ARE DESIGNATED BY A (*) IN THE PARTS LIST AND THE SHADED AREAS ON THE SCHEMATIC DIAGRAM. USE OF SUBSTITUTE REPLACEMENT PARTS WHICH DO NOT HAVE THE SAME SAFETY CHARACTERISTICS AS RECOMMENDED IN FACTORY SERVICE INFORMATION MAY CREATE SHOCK, FIRE OR OTHER HAZARDS, OR EXCESSIVE X-RADIATION.

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP2X594	BRACKET-CRT Corner Mounting, Metal
EP99X479	CABINET FRONT-Black, Plastic (25PMB885P)
EP99X463	CABINET FRONT-Black, Plastic (25PM4885P)
EP41X142	CHANNEL NUMBER READOUT DISPLAY-Green
EP91X105	DOOR-Top Tuning Controls
EP2X596	DOOR CATCH
EP2X593	DOOR HINGE
EP2X607	DOOR LATCH
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP4X446	OVERLAY-Primary Controls
EP4X445	OVERLAY-Secondary Controls, Black, Plastic
EP41X14	PILOT LIGHT-Stereo/Bilingual, Red, Y4001/Y4002
EP41X14	PILOT LIGHT-VIR, Red, Y4003
EP2X592	RETAINER-Glass Window
EP3X56	SPRING-CRT Ground (2 Used)
EP3X54	SWITCH PAD-Foam
EP94X5	WINDOW-CRT Cover, Glass (25PMB885P)
EP94X4	WINDOW-CRT Cover, Glass (25PM4885P)
EP2X600	WINDOW SUPPORT-Used 6

MISCELLANEOUS

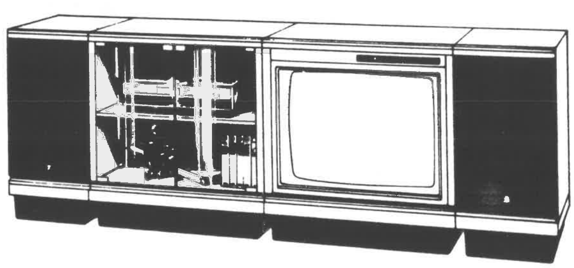
PART NO.	DESCRIPTION
EP68X7	CASTER-W/Socket

SPEAKER (SPK885)

EP8X133	CABLE-From Speaker To T.V.
EP2X610	CLIPS-For Grille Cloth Mounting
EP45X1	FOOT-Adjust, 4 Per Pack
EP89X528	GRILLE CLOTH
EP4X420	OVERLAY-Nameplate
EP95X45	SPEAKER-10" Woofer
EP95X46	SPEAKER-5" Mid Range
EP95X47	SPEAKER-2" Tweeter
EP37X77	TERMINAL BLOCK
EP31X173	CAPACITOR-2.2uf, 20%, 25V, Elect
EP31X179	CAPACITOR-4.7uf, 20%, 25V, Elect.
EP36X475	CHOKE-200uh, 3amp
EP36X476	CHOKE-800uh, 3amp

(OPTIONAL) STORAGE CABINET (STG885)

EP68X7	CASTER-W/Socket
EP73X33	DOOR-Glass
EP2X602	DOOR HINGE
EP2X605	DOOR LATCH
EP2X603	DOOR STRICKER PLATE
EP2X574	RETAINER-Cabinet Shelves Holder, 4 Per Package

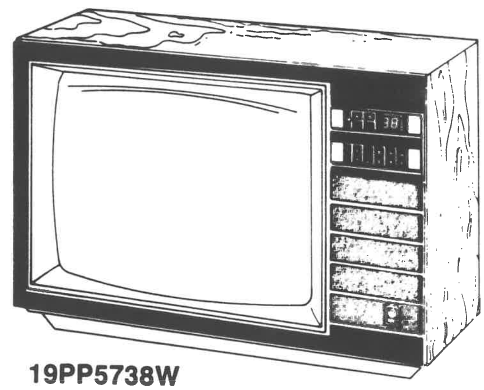


25PM4885P

Television and Speakers with optional STG885 Storage Cabinet.

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	19" PM-C
TUNING SYSTEM:	KMPS-130
PICTURE TUBE:	★A48ACE40X
UHF/VHF TUNER:	★EP93X502
AUDIO CIRCUIT BOARD:	EP93X513
LIGHT DEPENDENT RESISTOR BOARD:	EP41X146
POWER SUPPLY CIRCUIT BOARD:	★EP93X514
VIR MODULE:	EP93X462
SPEAKER: 16 Ohm, 4"	EP95X25
KMPS-130 TUNER CONTROL BOARD:	EP93X530
USER'S MANUAL:	29-9207-84



19PP5738W

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4220	EP49X352	BRIGHTNESS-10K ohm, 20%
R4260	EP49X494	PICTURE-
R4300	EP49X352	TINT-10K ohm, 20%
R4301	EP49X352	COLOR-10K ohm, 20%
R5010	EP49X488	AUDIO LEVEL-50K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%
S4010	EP39X134	SWITCH-Slide Type
S4014	EP39X53	SWITCH-Manual/VIR, Slide Type
S4200	EP39X205	SWITCH-Slide Type
SW5008	EP39X146	SWITCH-Cable Select, Slide Type

KEYBOARD

PART NO.	DESCRIPTION
EP62X190	ON/OFF, VOL., & CHANNEL SELECT

KNOBS

PART NO.	DESCRIPTION
EP43X341	COLOR, TINT, BRIGHTNESS, & PICTURE-Thumbwheel

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP83X19	ANTENNA CUSTOMER CHANGEABLE-VHF Complete
EP83X13	ANTENNA-UHF Bowtie Type
EP83X17	ANTENNA-VHF, Fold-Down
EP37X69	ANTENNA TERMINAL BOARD-Complete
EP98X530	CABINET BACK-Black, Plastic
EP2X540	CLIP-Power Cord Storage
ES3X29	CLIP-Antenna Terminal
★EP66X19	CORD-AC Power, Polarized
EP4X175	COVER-Service Information, Black, Plastic
EP8X127	JACKS-Phono Type, J5001-J5003, J5007, J5009
EP4X421	OVERLAY-Rear Controls, Alum.
EP1X33	RIVET-Plastic

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP92X126	BRACKET-Keyboard Mounting, Plastic
EP99X489	CABINET FRONT-Cherry Woodgrain, Plastic
EP41X140	CHANNEL NUMBER READOUT DISPLAY-Green
EP89X546	ESCUTCHEON-Primary Controls, Black, Plastic
EP89X479	GRILLE-Speaker
EP2X157	LIGHT PIPE-Light Sensor Plastic
EP4X418	OVERLAY-Secondary Controls, Inlay
EP4X420	OVERLAY-Nameplate
EP41X14	PILOT LIGHT-VIR/Video Red
EP2X534	SPRING-CRT Ground

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

IMPORTANT SAFETY NOTICE

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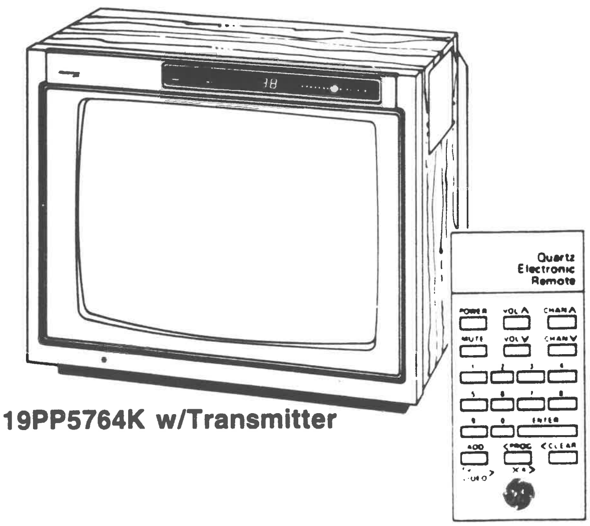
GENERAL ELECTRIC

CONSUMER ELECTRONICS BUSINESS OPERATIONS
PORTSMOUTH, VA 23705

PM CHASSIS
19PP5764KC01

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	19" PM-C
TUNING SYSTEM:	MP1-130
PICTURE TUBE:	★A48ACE40X
UHF/VHF TUNER:	★EP93X502
AUDIO CIRCUIT BOARD:	EP93X513
LIGHT DEPENDENT RESISTOR BOARD:	EP41X146
MODE SWITCH CIRCUIT BOARD:	EP93X525
POWER SUPPLY CIRCUIT BOARD:	★EP93X514
REMOTE CONTROL RECEIVER MODULE:	EP93X483
REMOTE CONTROL TRANSMITTER:	EP62X195
TOP TUNING CIRCUIT BOARD	EP93X519
VIR MODULE:	EP93X462
SPEAKER: 8 ohm, 4"	EP95X40
MP1-130 TUNER CONTROL BOARD:	EP93X541
USER'S MANUAL:	29-9208-84



19PP5764K w/Transmitter

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K ohm, 20%, Detent
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R4400	EP49X491	TONE-10K ohm, 20%
R5010	EP49X438	AUDIO LEVEL-50K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%
SW4001	EP39X206	SWITCH-On/Off, Push
SW4002	EP39X206	SWITCH-Vol. Up, Push
SW4003	EP39X206	SWITCH-Vol. Down, Push
SW4004	EP39X206	SWITCH-Channel Up, Push
SW4005	EP39X206	SWITCH-Channel Down, Push
SW4006	EP39X206	SWITCH-T.V./Video, Push
S4010	EP39X213	SWITCH-Internal/External Audio
SW4014	EP39X207	SWITCH-Manual/VIR, Push
SW5008	EP39X146	SWITCH-Cable Select, Slide Type

KNOBS

PART NO.	DESCRIPTION
EP47X60	BUTTONS-Color, Tint, Brightness, Picture
EP47X59	BUTTONS-Channel Up, & Channel Down
EP47X60	BUTTONS-Tone, & Audio
EP47X62	BUTTON-TV/Video
EP47X59	BUTTON-On/Off, Vol.
EP47X61	BUTTON-VIR

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP83X22	ANTENNA CUSTOMER CHANGEABLE-VHF Complete
EP83X13	ANTENNA-UHF Bowtie Type
EP83X17	ANTENNA-VHF, Fold-Down
EP37X69	ANTENNA TERMINAL BOARD-Complete
EP2X585	BRACKET-VHF Antenna Mounting, Plastic
EP92X135	BRACKET-Antenna Balum Mounting, Plastic
EP98X514	CABINET BACK-Black, Plastic
EP2X540	CLEAT-Power Cord Storage
ES3X29	CLIP-Antenna Terminal
★EP66X19	CORD-AC Power, Polarized
EP4X175	COVER-Service Information, Black, Plastic
EP8X127	JACKS-Phono Type, J5001—J5003, J5007, J5009
EP4X421	OVERLAY-Rear Controls, Metal
EP2X635	RETAINER-Push Fastener (2 Used)
EP1X33	RIVET-Plastic

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

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6/85 Supersedes 9/84

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP99X516	CABINET FRONT-Bronze, Plastic
EP97X115	CABINET WRAP-Top & Sides, W/ Vinyl Woodgrain
EP41X151	CHANNEL NUMBER READOUT DISPLAY-Green
EP91X128	DOOR-Top Tuning, Bronze, Plastic
EP2X637	DOOR ARM ASSEMBLY
EP4X468	DOOR BUMPER (2 Used)
EP4X426	DOOR HINGES
EP4X475	DOOR PIN
EP89X530	GRILLE CLOTH-Speaker
EP2X584	LIGHT PIPE-Light Sensor, Plastic, W/Spacer
EP4X511	OVERLAY-Primary Controls, Black, Plastic
EP4X510	OVERLAY-Secondary Controls, Black Lexan
EP41X14	PILOT LIGHT-VIR & Video Indicator, Red
EP2X615	RETAINER-Grille Mounting (12 Used)
EP3X58	RETAINER-Speaker Mounting (8 Used)
EP2X534	SPRING-CRT Ground
EP3X54	SWITCH PAD-Foam

MISCELLANEOUS

PART NO.	DESCRIPTION
EP91X97	CABINET BOTTOM-Black, Plastic

GENERAL ELECTRIC

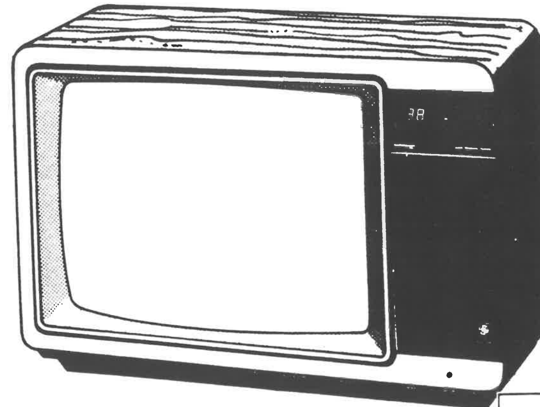
CONSUMER ELECTRONICS BUSINESS OPERATIONS
PORTSMOUTH, VA 23705

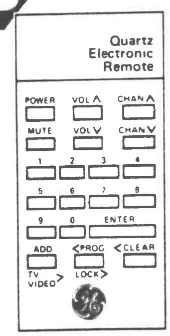
PM CHASSIS
19PM5765WC01

SERVICE INFORMATION — **PC CHASSIS MODEL PAGE**

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	19" PM-C
TUNING SYSTEM:	MP1-130
PICTURE TUBE:	★A48ACE40X
UHF/VHF TUNER:	★EP93X502
AUDIO CIRCUIT BOARD:	EP93X513
LIGHT DEPENDENT RESISTOR BOARD:	EP41X146
MODE SWITCH CIRCUIT BOARD:	EP93X525
POWER SUPPLY CIRCUIT BOARD:	★EP93X514
REMOTE CONTROL RECEIVER MODULE:	EP93X480
REMOTE CONTROL TRANSMITTER:	EP62X195
VIR MODULE:	EP93X462
SPEAKER: 16 ohm, 4"	EP95X25
MP1-130 TUNER CONTROL BOARD:	EP93X541
USER'S MANUAL:	29-9209-84





19PM5765W w/Transmitter

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4220	EP49X352	BRIGHTNESS-10K ohm, 20%
R4260	EP49X494	PICTURE-10K ohm, 20%, Detent
R4300	EP49X352	TINT-10K ohm, 20%
R4301	EP49X352	COLOR-10K ohm, 20%
R5010	EP49X488	AUDIO LEVEL-50K ohm, 20%
R5011	EP49X488	AUDIO LEVEL-50K ohm, 20%
S4010	EP39X134	SWITCH-Internal/External Audio, Slide Type
S4014	EP39X53	SWITCH-Manual/VIR, Slide Type
S4200	EP39X216	SWITCH-Antenna Video, Slide Type
SW5008	EP39X146	SWITCH-Cable Select,

KEYBOARD

PART NO.	DESCRIPTION
EP62X174	ON/OFF, VOL., & CHANNEL SELECT

KNOBS

PART NO.	DESCRIPTION
EP43X341	COLOR, TINT, BRIGHTNESS, & PICTURE

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP83X13	ANTENNA-UHF Bowtie Type
EP83X17	ANTENNA-VHF, Fold-Down
EP37X69	ANTENNA TERMINAL BOARD-Complete
EP92X135	BRACKET-Antenna/Balum Mounting, Plastic
EP2X582	BRACKET-VHF Antenna Mounting, Plastic
EP98X560	CABINET BACK-Black, Plastic
EP2X540	CLEAT-Power Cord Storage
ES3X29	CLIP-Antenna Terminal
★EP66X19	CORD-AC Power, Polarized
EP4X175	COVER-Service Information, Black, Plastic
EP8X127	JACK-Phono Type, J5001—J5003, J5007, & J5009
EP4X421	OVERLAY-Rear Controls, Metal
EP1X33	RIVET-Plastic
EP2X635	RETAINER-Push Fastener (2 Used)

(Cont.)

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

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CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP92X115	BRACKET-Keyboard Mounting, plastic
EP99X447	CABINET FRONT-Cherry Woodgrain, Plastic
EP41X140	CHANNEL NUMBER READOUT DISPLAY-Green
EP4X419	DOOR-Secondary Controls, Black, Lexan
EP89X487	ESCUTCHEON-Upper Controls, Black, Plastic
EP89X559	GRILLE-Speaker, Black, Plastic
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP4X418	OVERLAY-Secondary Controls, Inlay
EP4X581	OVERLAY-Nameplate
EP41X14	PILOT LIGHT-VIR & Video, Red
EP2X534	SPRING-CRT Ground
EP4X417	WINDOW-Channel Readout, Plastic

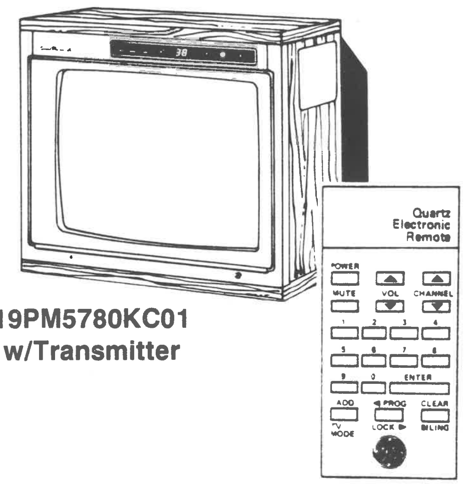
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SERVICE INFORMATION — **PC CHASSIS MODEL PAGE**

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	19" PM-C
TUNING SYSTEM:	MP130
PICTURE TUBE:	★A48ACE40X
UHF/VHF TUNER:	★EP93X502
AUDIO/VIDEO CIRCUIT BOARD:	EP93X522
STEREO AMPLIFIER CIRCUIT BOARD:	EP93X512
LIGHT DEPENDENT RESISTOR BOARD:	EP14X146
POWER SUPPLY CIRCUIT BOARD:	★EP93X515
RF SWITCH ASSEMBLY:	EP39X215
RELAY CIRCUIT BOARD:	EP93X540
REMOTE CONTROL RECEIVER MODULE:	EP93X483
REMOTE CONTROL TRANSMITTER:	EP62X196
TOP TUNING CIRCUIT BOARD:	EP93X516
VIR MODULE:	EP93X462
SPEAKER: 8 ohm, 4" (2 Used)	EP95X40
MP130 TUNER CONTROL BOARD:	EP93X541
USER'S MANUAL:	29-9210-84



19PM5780KC01
w/Transmitter

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4150	EP49X492	BALANCE-15K ohm, 20%, Detent
R4155	EP49X492	BASS-15K ohm, 20%, Detent
R4160	EP49X492	TREBLE-15K ohm, 20%, Detent
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K ohm, 20%, Detent
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%
TSW4001	EP39X206	SWITCH-On/Off, Push
TSW4002	EP39X206	SWITCH-Vol. Up, Push
TSW4003	EP39X206	SWITCH-Vol. Down, Push
TSW4004	EP93X206	SWITCH-Channel Up, Push
TSW4005	EP39X206	SWITCH-Channel Down, Push
TSW4006	EP39X206	SWITCH-T.V. Mode, Push
TSW4011	EP39X207	SWITCH-Loudness/Defeat, Push-Push
TSW4012	EP39X207	SWITCH-Mono/Stereo, Push-Push
TSW4014	EP39X207	SWITCH-Manual/VIR, Slide Type
SW5000	EP39X53	SWITCH-Stereo/Modo, Slide Type
SW5001	EP39X53	SWITCH-Fix Input, Slide Type
SW5008	EP39X146	SWITCH-Cable Select, Slide Type
S5300	EP39X134	SWITCH-Internal/Extenal Audio

KNOBS

PART NO.	DESCRIPTION
EP47X60	COLOR, TINT, BRIGHTNESS, PICTURE, BALANCE, BASS, & TREBLE
EP47X59	ON/OFF, VOL. UP/DOWN & CHANNEL UP/DOWN
EP47X61	LOUDNESS, VIR, & STEREO
EP47X62	TV MODE

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP37X79	AMP/SPEAKER JACK ASSEMBLY
EP83X13	ANTENNA-UHF Bowtie Type
EP83X17	ANTENNA-VHF, Fold-Down
EP83X22	ANTENNA CUSTOMER CHANGEABLE-VHF Complete
EP2X585	BRACKET-VHF Antenna Mounting, Plastic
EP98X479	CABINET BACK-Black, Plastic
EP2X540	CLEAT-Power Cord Storage Plastic
ES3X29	CLIP-Antenna Terminal
★EP66X19	CORD-AC Power, Polarized

(Cont.)

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

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EP4X175	COVER-Service Information, Black, Plastic
EP8X127	JACK-Phono, J5001—J5009, J5015, & J5016
EP8X136	JACK-Telephone Type, J5200 & J5201
EP4X427	OVERLAY-Rear Controls, White, Alum
EP2X635	RETAINER-Push Fastner (2 Used)
EP1X33	RIVET-Plastic

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP92X124	BRACKET-Tuner Control Mounting, Plastic
EP99X482	CABINET FRONT-Black, Plastic
EP97X113	CABINET WRAP-Top & Sides, W/Vinyl Teak Woodgrain
EP41X151	CHANNEL NUMBER READOUT DISPLAY-Green
EP91X113	DOOR-Top Tuning, Plastic
EP4X426	DOOR HINGES
EP2X607	DOOR LATCH
EP89X530	GRILLE-Speaker, Black
EP8X128	JACK-Headphones
EP2X584	LIGHT PIPE-Light Sensor, Plastic, W/Spacer
EP4X472	OVERLAY-Primary Controls, Black, Plastic
EP4X471	OVERLAY-Secondary Controls, Black, Plastic
EP41X14	PILOT LIGHT-Stereo Indicator, Red, TY4001
EP41X14	PILOT LIGHT-Bilingual Indicator, Red, TY4002
EP41X14	PILOT LIGHT-VIR Indicator, Red, TY4003
EP8X137	PLUG-Telephone Type
EP3X58	RETAINER-Speaker Mounting (8 Used)
EP2X615	RETAINER-Grille Mounting (12 Used)
EP2X571	RETAINER-Window
EP2X534	SPRING-CRT Ground
EP3X54	SWITCH PAD-Foam
EP94X6	WINDOW-CRT Cover, Glass
EP2X572	WINDOW GUIDE-Slide

MISCELLANEOUS

PART NO.	DESCRIPTION
EP92X112	CABINET BOTTOM-Black, Plastic

(OPTIONAL) CABINET BASE (CRD762)

(BASE STORAGE)

MISCELLANEOUS

PART NO.	DESCRIPTION
EP68X7	CASTER-W/Socket

STEREO SPEAKER (SPK762)

MISCELLANEOUS

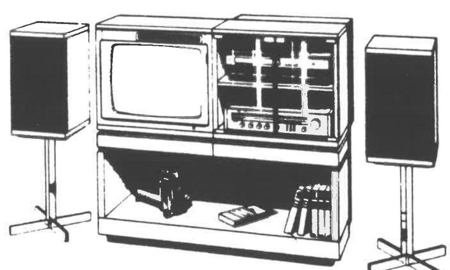
PART NO.	DESCRIPTION
EP31X106	3.3uf, 20%, 16V, Bi Polar, Elect.
EP8X133	CABLE-From Speaker To T.V.
EP4X420	OVERLAY-GE Nameplate
EP89X513	GRILLE CLOTH
EP95X43	SPEAKER-Woofer, 8"
EP95X44	SPEAKER-Tweeter, 2"
EP37X73	TERMINAL BLOCK-Plastic
	STAND-For Speaker (Optional) SPS762

(OPTIONAL) STORAGE CABINET (STG762)

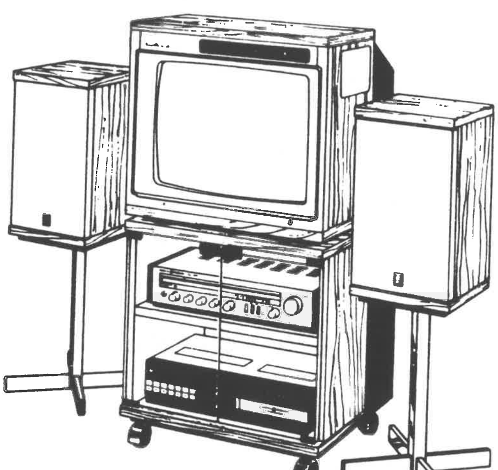
(BOTTOM STORAGE)

MISCELLANEOUS

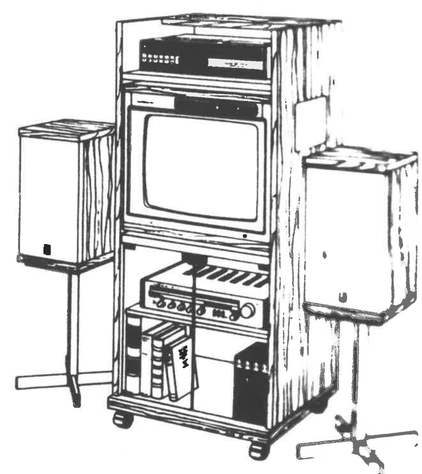
PART NO.	DESCRIPTION
EP68X11	CASTER
EP73X31	DOOR-Glass
EP2X602	HINGE-Glass Doors
EP2X605	LATCH
EP2X608	SHELVE RETAINER
EP2X603	STRIKER PLATE



19PM5780K
Shown with optional STG 726 Storage Unit, CRD 762 Coordinate Base and SPK 762 Speakers on SPS 762 Stands.



19PM5780K
Shown with optional STG 762 Storage Cabinet and SPK 762 Speakers and SPS 762 Stands.



19PM5780K
Shown with optional RCK 780S Storage [illegible] and SPK 762 Speakers and SPS 762 [illegible]

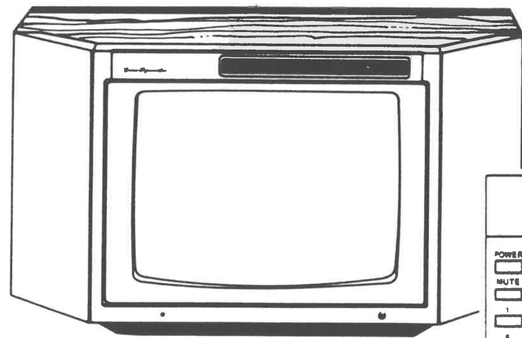
GENERAL ELECTRIC

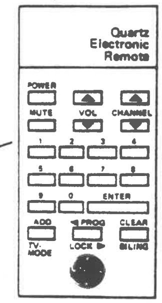
VIDEO PRODUCTS BUSINESS DIVISON
PORTSMOUTH, VA 23705

PM CHASSIS
19PM5785KC01

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	19" PM-C
TUNING SYSTEM:	MP1-130
PICTURE TUBE:	★A48ACE40X
UHF/VHF TUNER:	★EP93X502
AUDIO/VIDEO CIRCUIT BOARD:	EP93X522
STEREO AMPLIFIER CIRCUIT BOARD:	EP93X512
LIGHT DEPENDENT RESISTOR BOARD:	EP41X146
POWER SUPPLY CIRCUIT BOARD:	★EP93X515
REMOTE CONTROL RECEIVER MODULE:	EP93X483
REMOTE CONTROL TRANSMITTER:	EP62X196
RELAY CIRCUIT BOARD:	EP93X540
RF SWITCH ASSMEBLY:	EP39X215
TOP TUNING CIRCUIT BOARD:	EP93X516
VIR MODULE:	EP93X462
SPEAKER:8 ohm, 2" Tweeter (2 Used)	EP95X49
SPEAKER: 8 ohm, 4" Woofer (2 Used)	EP95X40
MP1-130 TUNER CONTROL BOARD:	EP93X541
USER'S MANUAL:	29-9210-84





19PM5785K w/Transmitter

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4150	EP49X492	BALANCE-15K ohm, 20%
R4155	EP49X492	BASS-15K ohm, 20%
R4160	EP49X492	TREBLE-15K ohm, 20%
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K ohm, 20%, Detent
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R5010	EP49X458	AUDIO LEVEL-50K ohm, 20%, Front
R5011	EP49X458	AUDIO LEVEL-50K ohm, 20%, Rear
R5260	EP49X395	SHARPNESS-1K ohm, 20%
TSW4001	EP39X206	SWITCH-On/Off, Push
TSW4002	EP39X206	SWITCH-Vol. Up, Push
TSW4003	EP39X206	SWITCH-Vol. Down, Push
TSW4004	EP93X206	SWITCH-Channel Up, Push
TSW4005	EP39X206	SWITCH-Channel Down, Push
TSW4006	EP39X206	SWITCH-T.V. Mode, Push
TSW4011	EP39X207	SWITCH-Loudness/Defeat, Push-Push
TSW4012	EP39X207	SWITCH-Mono/Stereo, Push-Push
TSW4014	EP39X207	SWITCH-Manual/VIR, Slide Type
SW5000	EP39X53	SWITCH-Mono/Stereo (Video I)
SW5001	EP39X53	SWITCH-Fixed Input, Slide Type
S5300	EP39X134	SWITCH-On/Off External Amplifier
SW5008	EP39X146	SWITCH-Cable Select, Slide Type

KNOBS

PART NO.	DESCRIPTION
EP47X60	COLOR, TINT, BRIGHTNESS, & PICTURE
EP47X40	BALANCE, TREBLE & BASS
EP47X61	LOUDNESS, VIR & STEREO
EP47X62	TV MODE
EP47X59	ON/OFF, VOL. UP/DOWN, CHANNEL UP/DOWN

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP37X79	AMPLIFIER/SPEAKER JACK ASSEMBLY
EP83X22	ANTENNA CUSTOMER CHANGEABLE-VHF Complete
EP83X13	ANTENNA-UHF Bowtie Type
EP83X17	ANTENNA-VHF, Fold-Down
EP2X585	BRACKET-VHF Mounting, Plastic
EP98X479	CABINET BACK-Teak Woodgrain, Plastic
EP2X540	CLEAT-Power Cord Storage
ES3X29	CLIP-Antenna Terminal
★EP66X19	CORD-AC Power, Polarized
EP4X175	COVER-Service Information, Black, Plastic
EP8X127	JACK-Phono Type, J5001—J5009, J5015 & J5016
EP8X136	JACK-Telephone Type, J5200 & J5201
EP4X427	OVERLAY-Rear Controls, Alum.
EP2X625	RETAINER-Push Fastner (2 Used)
EP1X33	RIVET-Plastic

(Cont.)

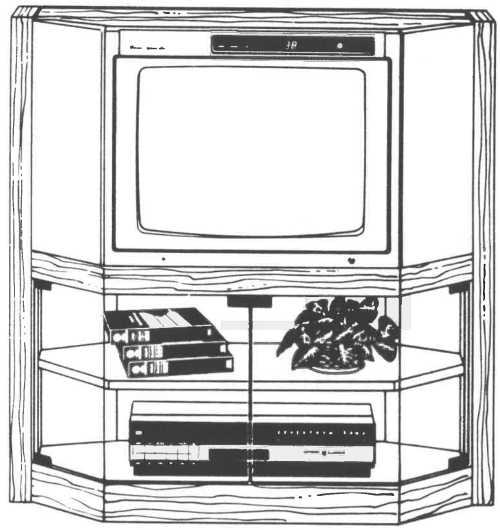
BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

IMPORTANT SAFETY NOTICE

Product safety should be considered when component replacement is made in any area of a receiver. The (★) beside a part in the parts list and the shaded areas of the schematic diagram designates components in which safety can be of special significance. It is particularly recommended that exact cataloged parts be used for replacement of components which are designated by a (★) in the parts list and the shaded areas on the schematic diagram. Use of substitute replacement parts which do not have the same safety characteristics as recommended in factory service information may create Shock, Fire or other hazards, or excessive X-Radiation.

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP92X124	BRACKET-MP1 130 Tuner Controls Mounting, Plastic
EP99X521	CABINET FRONT-Black, Plastic
EP41X151	CHANNEL NUMBER READOUT DISPLAY-Green
EP91X132	DOOR-Top Tuning, Silver, Plastic
EP2X637	DOOR ARM ASSEMBLY
EP4X468	DOOR BUMPER
EP4X426	DOOR HINGES
EP4X473	DOOR PIN
EP8X128	JACK-Headphones, Telephone Type, J4000
EP2X584	LIGHT PIPE-Light Sensor, Plastic, W/Spacer
EP4X472	OVERLAY-Primary Controls, Black, Plastic
EP4X471	OVERLAY-Secondary Controls, Black, Plastic
EP41X14	PILOT LIGHT-Stereo Indicator, Red, TY4001
EP41X14	PILOT LIGHT-Balingual Indicator, Red, TY4002
EP41X14	PILOT LIGHT-VIR Indicator, Red, TY4003
EP1X46	RETAINER-Speaker Mounting, Fastener (16 Used)
EP2X534	SPRING-CRT Ground
EP3X54	SWITCH PAD-Foam
EP94X6	WINDOW-CRT Cover, Glass
EP2X571	WINDOW RETAINER
EP2X572	WINDOW SLIDE-(2 Used)



19PM5785K
Shown with optional CRD 760 Co-ordinate Cabinet.

MISCELLANEOUS

PART NO.	DESCRIPTION
EP91X97	CABINET BOTTOM-Black, Plastic

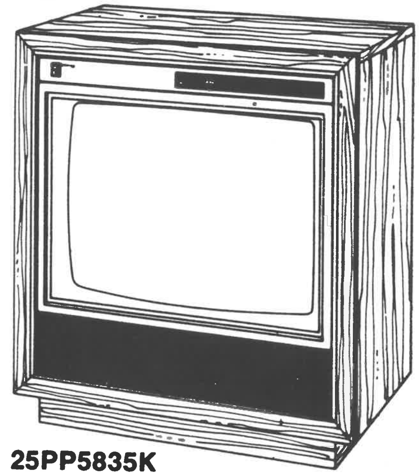
CO-ORDINATE STAND (CRD760B)

PART NO.	DESCRIPTION
EP68X7	CASTER-W/Socket
EP73X27	GLASS DOOR-Either Side
EP4X431	HINGE-Either Side
EP2X586	LATCH-Glass Doors
EP2X587	PLATE-Striker, For Glass Doors

IMPORTANT SAFETY NOTICE

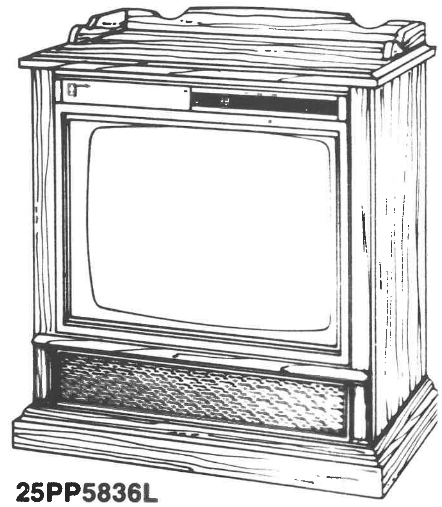
CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	25" PM-C
TUNING SYSTEM:	KMPS130
PICTURE TUBE:	★A63ABZ40X
UHF/VHF TUNER:	★EP93X502
2 WATT AUDIO CIRCUIT BOARD:	EP93X513
LIGHT DEPENDENT RESISTOR BOARD:	EP41X146
POWER SUPPLY CIRCUIT BOARD:	★EP93X515
TOP TUNING CIRCUIT BOARD:	EP93X528
VIR MODULE:	EP93X462
SPEAKER: 8 Ohm, 4" (2 Used)	EP95X40
KMPS130 TUNER CONTROL BOARD:	EP93X530
USER'S MANUAL:	29-9214-84



25PP5835K

REF. NO.	PART NO.	DESCRIPTION
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K ohm, 20%, Detent
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R4400	EP49X491	TONE CONTROL-10K ohm, 20%
R5010	EP49X488	AUDIO LEVEL-50K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%
S4010	EP39X213	SWITCH-Internal/External Audio
TSW4014	EP39X207	SWITCH-Manual/VIR,
S4200	EP39X214	SWITCH-TV/Video
SW5008	EP39X146	SWITCH-Calbe Select, Slide Type



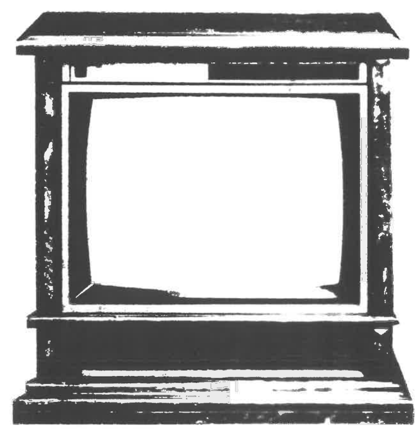
25PP5836L

KEYBOARD

PART NO.	DESCRIPTION
EP62X192	ON/OFF, VOL., & CHANNEL SELECT

KNOBS

PART NO.	DESCRIPTION
EP47X66	COLOR, TINT, BRIGHTNESS, PICTURE, TV/VIDEO, TONE,& AUDIO-Push
EP47X61	MANUAL/VIR



(Cont.)

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

IMPORTANT SAFETY NOTICE

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CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP37X69	ANTENNA TERMINAL BOARD-Complete
EP92X135	BRACKET-Antenna/Balun Mounting, Plastic
EP98X519	CABINET BACK-Hardboard (25PP5835K)
EP98X520	CABINET BACK-Hardboard (25PP5836L)
EP98X521	CABINET BACK-Hardboard (25PP5837K)
EP2X540	CLEAT-Power Cord Storage, Plastic
ES3X29	CLIP-Antenna Terminal
★EP66X19	CORD-AC Power, Polarized
EP4X169	COVER-Service Information, Black, Plastic
EP8X127	JACK-Phono Type, J5001—J5003, J5007 & J5009
EP4X421	OVERLAY-Rear Controls, Alum.
EP1X46	RETAINER-Fastener (8 Used)
EP91X74	TUBE CAP-CRT Cover, Black Plastic

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP2X594	BRACKET-CRT Corner Mounting, Metal
EP92X125	BRACKET-Escutcheon Mounting, Plastic
EP99X484	CABINET FRONT-Black, Plastic
EP41X151	CHANNEL NUMBER READOUT DISPLAY-Green
EP4X473	DOOR-Top Tuning, Bronze/Black
EP2X620	DOOR ARM
EP2X621	DOOR CATCH
EP2X593	DOOR HINGES
EP2X622	DOOR LATCH
EP4X475	DOOR PIN
EP89X534	ESCUTCHEON-Top Tuning, Black/Bronze, Plastic
EP89X535	GRILLE-Speaker (25PP5835K)
EP89X537	GRILLE-Speaker (25PP5836L)
EP89X536	GRILLE CLOTH-Speaker (25PP5837K)
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP54X252	OVERLAY-Secondary Controls, Black, Plastic
EP4X420	OVERLAY-Nameplate
EP41X14	PILOT LIGHT-Stereo Indicator, Red, TY01
EP41X14	PILOT LIGHT-VIR Indicator, Red, TY03
EP3X56	SPRING-CRT Ground
EP3X54	SWITCH PAD-Foam

MISCELLANEOUS

PART NO.	DESCRIPTION
EP68X12	CASTER

GENERAL ELECTRIC

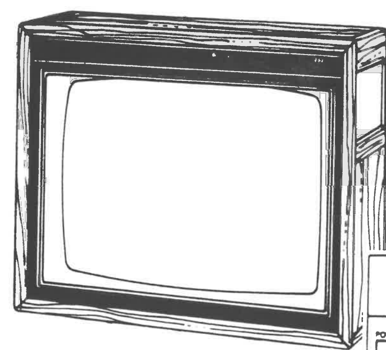
CONSUMER ELECTRONICS BUSINESS OPERATIONS
PORTSMOUTH, VA 23705

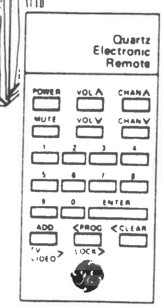
PM CHASSIS
25PP5859KC01/D01

SERVICE INFORMATION — **PM CHASSIS MODEL PAGE**

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	25" PM-C/D
TUNING SYSTEM:	MP1-130
PICTURE TUBE:	★A63ABZ40X
UHF/VHF TUNER:	★EP93X502
AUDIO CIRCUIT BOARD:	EP93X513
LIGHT DEPENDENT RESISTOR BOARD:	EP41X146
POWER SUPPLY CIRCUIT BOARD:	★EP93X514
REMOTE CONTROL RECEIVER MODULE:	EP93X482
REMOTE CONTROL TRANSMITTER:	EP62X195
TOP TUNING CIRCUIT BOARD:	EP93X518
VIR MODULE:	EP93X462
SPEAKER: 8 ohm, 4" (2 Used)	EP95X40
MP1-130 TUNER CONTROL BOARD:	EP93X541
USER'S MANUAL:	29-9217-84





25PP5859K w/Transmitter

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K ohm, 20%, Detent
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R4400	EP49X491	TONE CONTROL-10K ohm, 20%
R5010	EP49X488	AUDIO LEVEL-50K ohm, 20%
R5011	EP49X488	AUDIO LEVEL-50K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%
SW4001	EP39X206	SWITCH-On/Off, Push
SW4002	EP39X206	SWITCH-Vol. Up, Push
SW4003	EP39X206	SWITCH-Vol. Down, Push
SW4004	EP39X206	SWITCH-Channel Up, Push
SW4005	EP39X206	SWITCH-Channel Down, Push
SW4006	EP39X206	SWITCH-T.V., Push
S4010	EP39X213	SWITCH-Internal/External Audio
SW4014	EP39X207	SWITCH-Manual/VIR
SW5008	EP39X146	SWITCH-Cable Select, Slide Type

KNOBS

PART NO.	DESCRIPTION
EP47X66	AUDIO & TONE
EP47X66	COLOR, TINT, BRIGHTNESS, & PICTURE
EP47X59	ON/OFF, VOL. UP & DOWN
EP47X62	TV/VIDEO
EP47X61	VIR

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP83X13	ANTENNA-UHF Bowtie Type
EP83X17	ANTENNA-VHF, Fold-Down
EP37X69	ANTENNA TERMINAL BOARD-Complete
EP2X616	BRACKET-VHF Antenna Mounting, Plastic
EP92X135	BRACKET-Antenna/Balum Mounting, Plastic
EP98X556	CABINET BACK-Hardboard
EP2X540	CLEAT-Power Cord Storage
ES3X29	CLIP-Antenna Terminal
★EP66X19	CORD-AC Power, Polarized
EP4X175	COVER-Service Information, Black, Plastic
EP8X127	JACK-Phono Type, J5001—J5003, J5007 & J5009
EP4X421	OVERLAY-Rear Controls, Metal
EP2X635	RETAINER-Push Fastener (2 Used)
EP1X33	RIVET-Plastic

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

IMPORTANT SAFETY NOTICE

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CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP2X594	BRACKET-CRT Corner Mounting, Metal
EP99X524	CABINET FRONT-Black, Plastic
EP41X151	CHANNEL NUMBER READOUT DISPLAY-Green
EP91X137	DOOR-Top Tuning, Black, Plastic
EP2X619	DOOR ARM ASSEMBLY
EP2X596	DOOR CATCH
EP2X593	DOOR HINGES
EP2X644	DOOR LATCH
EP4X474	DOOR LOCK
EP4X475	DOOR PIN
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP4X521	OVERLAY-Top Tuning, Black, Lexan
EP4X500	OVERLAY-Secondary Controls, Plastic
EP3X58	RETAINER-Speaker Mounting (8 Used)
EP3X56	SPRING-CRT Ground (2 Used)
EP3X54	SWITCH PAD-Foam

(OPTIONAL) SPACE SAVER BASE (CRD859)

MISCELLANEOUS

PART NO.	DESCRIPTION
EP68X17	CASTER-(4 Used)
EP73X36	DOOR-Glass (2 Used)
EP4X524	HINGE-(4 Used)
EP2X645	LATCH-Magnetic (One Used)
EP2X646	PLATE-Stricker (2 Used)

GENERAL ELECTRIC

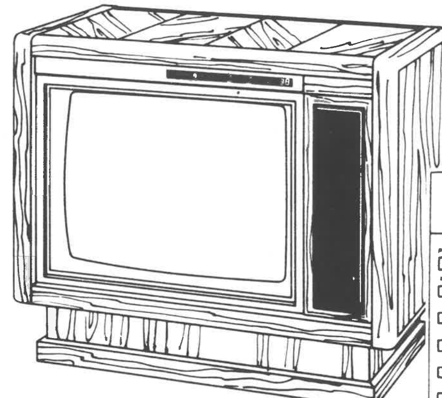
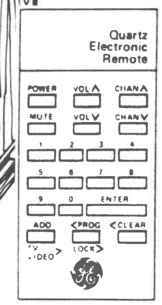
VIDEO PRODUCTS BUSINESS DIVISON
PORTSMOUTH, VA 23705

PM CHASSIS
25PP5860KC01
25PP5861LC01
25PP5862KC01

SERVICE INFORMATION — PC CHASSIS MODEL PAGE

CHASSIS AND ASSEMBLY PARTS LIST

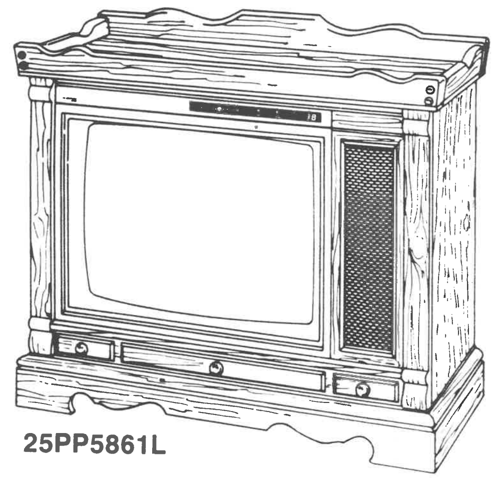
CHASSIS TYPE:	25" PM-C
TUNING SYSTEM:	MP1-130
PICTURE TUBE:	★A63ABZ40X
UHF/VHF TUNER:	★EP93X502
AUDIO CIRCUIT BOARD:	EP93X513
LIGHT DEPENDENT RESISTOR BOARD:	EP41X146
POWER SUPPLY CIRCUIT BOARD:	★EP93X514
REMOTE CONTROL RECEIVER MODULE:	EP93X482
REMOTE CONTROL TRANSMITTER:	EP62X195
TOP TUNING CIRCUIT BOARD:	EP93X518
VIR MODULE:	EP93X462
SPEAKER: 16 ohm, 4"	EP95X25
MP1-130 TUNER CONTROL BOARD:	EP93X541
USER'S MANUAL:	29-9217-84

25PP5860K w/Transmitter

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K ohm, 20%, Detent
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R4400	EP49X491	TONE CONTROL-10K ohm, 20%
R5010	EP49X488	AUDIO LEVEL-50K ohm, 20%
R5011	EP49X488	AUDIO LEVEL-50K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%
SW4001	EP39X206	SWITCH-On/Off, Push
SW4002	EP39X206	SWITCH-Vol. Up, Push
SW4003	EP39X206	SWITCH-Vol. Down, Push
SW4004	EP39X206	SWITCH-Channel Up, Push
SW4005	EP39X206	SWITCH-Channel Down, Push
SW4006	EP39X206	SWITCH-T.V., Push
S4010	EP39X213	SWITCH-Internal/External Audio
SW4014	EP39X207	SWITCH-Manual/VIR
SW5008	EP39X146	SWITCH-Cable Select, Slide Type

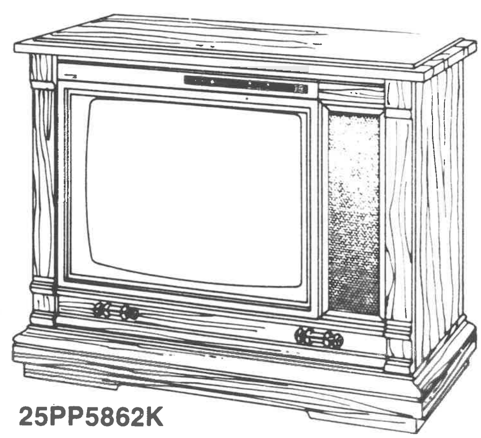


25PP5861L

KNOBS

PART NO.	DESCRIPTION
EP47X66	AUDIO & TONE
EP47X66	COLOR, TINT, BRIGHTNESS, & PICTURE
EP47X59	ON/OFF, VOL. UP & DOWN
EP47X62	TV/VIDEO
EP47X61	VIR

(Cont.)



25PP5862K

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

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CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP37X69	ANTENNA TERMINAL BOARD-Complete
EP92X135	BRACKET-Antenna/Balum Mounting, Plastic
EP98X553	CABINET BACK-Hardboard (25PP5860K)
EP98X554	CABINET BACK-Hardboard (25PP5861L)
EP98X555	CABINET BACK-Hardboard (25PP5862K)
EP2X540	CLEAT-Power Cord Storage
ES3X29	CLIP-Antenna Terminal
★EP66X19	CORD-AC Power, Polarized
EP4X169	COVER-Service Information, Black, Plastic
EP8X127	JACK-Phono Type, J5001—J5003, J5007 & J5009
EP4X421	OVERLAY-Rear Controls, Metal
EP91X74	TUBE CAP-CRT Cover, Black Plastic

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP2X594	BRACKET-CRT Corner Mounting, Metal
EP99X488	CABINET FRONT-Black, Plastic (25PP5860K)
EP99X485	CABINET FRONT-Black, Plastic (25PP5861L/25PP5862K)
EP41X151	CHANNEL NUMBER READOUT DISPLAY-Green
EP91X135	DOOR-Top Tuning, Bronze, Plastic (25PP5860K)
EP91X136	DOOR-Top Tuning, Bronze, Plastic (25PP5861L/25PP5862K)
EP2X619	DOOR ARM ASSEMBLY
EP2X596	DOOR CATCH
EP2X593	DOOR HINGES
EP2X644	DOOR LATCH
EP4X474	DOOR LOCK
EP4X475	DOOR PIN
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP4X521	OVERLAY-Top Tuning, Black, Lexan
EP4X500	OVERLAY-Secondary Controls, Plastic
EP1X46	RETAINER-Speaker/Grille, Fastener (4 Used)
EP3X56	SPRING-CRT Ground (2 Used)
EP3X54	SWITCH PAD-Foam

MISCELLANEOUS

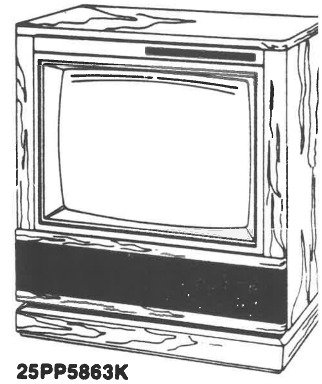
PART NO.	DESCRIPTION
EP68X7	CASTER-W/Socket
EP4X182	KNOB-Decorative (Order 3) (25PP5861L)
EP4X181	PULL-Decorative (Order 2) (25PP5862K)

GENERAL ELECTRIC
VIDEO PRODUCTS BUSINESS DIVISON
PORTSMOUTH, VA 23705

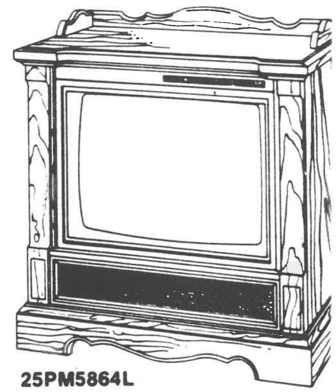
PM CHASSIS
25PP5863KC01
25PP5864LC01
25PP5865KC01

CHASSIS AND ASSEMBLY PARTS LIST

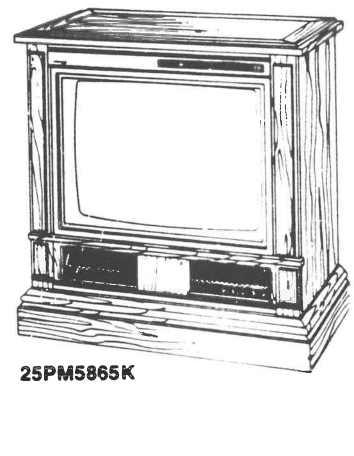
CHASSIS TYPE:	25" PM-C
TUNING SYSTEM:	MP1-130
PICTURE TUBE:	★A63ABZ40X
UHF/VHF TUNER:	★EP93X502
AUDIO/VIDEO CIRCUIT BOARD:	EP93X522
STEREO AMPLIFIER CIRCUIT BOARD:	EP93X512
LIGHT DEPENDENT RESISTOR BOARD:	EP41X146
POWER SUPPLY CIRCUIT BOARD:	★EP93X515
RF SWITCH ASSEMBLY	EP39X215
RELAY CIRCUIT BOARD:	EP93X540
REMOTE CONTROL RECEIVER MODULE:	EP93X480
REMOTE CONTROL TRANSMITTER:	EP62X196
TOP TUNING CIRCUIT BOARD:	EP93X517
VIR MODULE:	EP93X462
SPEAKER: 8 ohm, 4" Woofer	EP95X42 (2 Used)
SPEAKER: 8 ohm, 2" Tweeter	EP95X41 (2 Used)
MP1-130 TUNER CONTROL BOARD:	EP93X541
USER'S MANUAL:	29-9219-84



25PP5863K



25PM5864L



25PM5865K

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4150	EP49X492	BALANCE-15K ohm, 20%, Detent
R4155	EP49X492	BASS-15K ohm, 20%, Detent
R4160	EP49X492	TREBLE-15K ohm, 20%, Detent
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K ohm, 20%, Detent
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R5010	EP49X458	AUDIO LEVEL-50K ohm 20%
R5011	EP49X458	AUDIO LEVEL-50K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%
TSW4001	EP39X206	SWITCH-On/Off, Push
TSW4002	EP39X206	SWITCH-Vol. Up, Push
TSW4003	EP39X206	SWITCH-Vol. Down, Push
TSW4004	EP39X206	SWITCH-Channel Up, Push
TSW4005	EP39X206	SWITCH-Channel Down, Push
TSW4006	EP39X206	SWITCH-T.V. Mode, Push
TSW4011	EP39X207	SWITCH-Loudness/Defeat, Push
TSW4012	EP39X207	SWITCH-Mono/Stereo, Push
TSW4014	EP39X207	SWITCH-Manual/VIR, Push
SW5000	EP39X53	SWITCH-Mono/Stereo, (Video I), Slide Type
S5001	EP39X53	SWITCH-Mono/Stereo (Video II), Slide
S5008	EP39X146	SWITCH-Cable Select, Slide Type
S5300	EP39X134	SWITCH-On/Off External Amplifier

(Cont.)

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

IMPORTANT SAFETY NOTICE

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KNOBS

PART NO.	DESCRIPTION
EP47X66	COLOR, TINT, BRIGHTNESS, & PICTURE-W/Retainer
EP47X66	BALANCE, TREBLE, & BASS, W/Retainer, Push
EP47X62	MODE
EP47X59	ON/Off, VOL. UP/DOWN, CHANNEL UP/DOWN, Push
EP47X61	VIR, STEREO, & LOUDNESS, Push

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP98X522	CABINET BACK-Hardboard (25PP5863K)
EP98X523	CABINET BACK-Hardboard (25PP5864L)
EP98X524	CABINET BACK-Hardboard (25PP5865K)
EP2X540	CLEAT-Power Cord Starage, Plastic
ES3X29	CLIP-Antenna Terminal
★EP66X19	CORD-AC Power, Polarized
EP4X169	COVER-Service Information, Black, Plastic
EP8X127	JACK-Phono Type, J5001—J5009, J5015 & J5016
EP8X119	JACK-Phono Type, J5200 & 5201
EP4X427	OVERLAY-Rear Controls, Black, Plastic
EP91X74	TUBE CAP-CRT Cover, Black Plastic

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP2X594	BRACKET-CRT Corner Mounting, Metal
EP99X485	CABINET FRONT-Black, Plastic
EP41X151	CHANNEL NUMBER READOUT DISPLAY-Green
EP91X122	DOOR-Top Tuning, Plastic
EP2X619	DOOR ARM ASSEMBLY
EP2X596	DOOR CATCH
EP2X593	DOOR HINGE
EP4X474	DOOR LOCK
EP4X475	DOOR PIN
EP89X538	GRILLE CLOTH-Speaker, Black (25PP5863K)
EP89X539	GRILLE CLOTH-Speaker, (25PP5864L)
EP89X540	GRILLE CLOTH-Speaker, (25PP5865K)
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP54X513	OVERLAY-Primary Controls, Black, Lexan
EP54X512	OVERLAY-Secondary Controla, Black, Lexan
EP41X14	PILOT LIGHT-Stereo Indicator, Red, TY4001
EP41X14	PILOT LIGHT-Bilingual Indicator, Red, TY4002
EP41X14	PILOT LIGHT-VIR Indicator, Red, TY4003
EP1X46	RETAINER-Speaker/Grille Mounting (14 used)
EP3X56	SPRING-CRT Ground
EP3X54	SWITCH PAD-Foam

MISCELLANEOUS

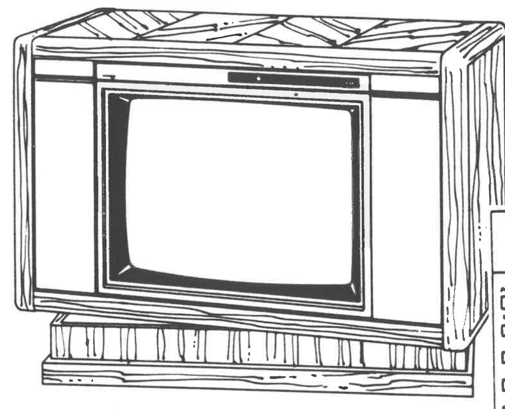
PART NO.	DESCRIPTION
EP68X7	CASTER-W/Socket

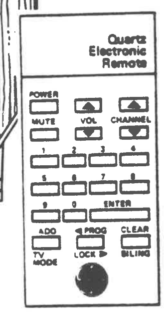
IMPORTANT SAFETY NOTICE

Product safety should be considered when component [illegible] the shaded areas of the schematic diagram [illegible] that exact cataloged parts be used for [illegible] diagram. Use of substitute replacement parts which do not have the same safety [illegible] create Shock, Fire or other hazards, or excessive X-Radiation.

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	25" PM-C
TUNING SYSTEM:	MP1-130
PICTURE TUBE:	★A63ABZ40X
UHF/VHF TUNER:	★EP93X502
AUDIO/VIDEO CIRCUIT BOARD:	EP93X522
LIGHT DEPENDENT RESISTOR BOARD:	EP41X146
POWER SUPPLY CIRCUIT BOARD:	★EP93X515
RF SWITCH ASSEMBLY:	EP39X215
RELAY CIRCUIT BOARD:	EP93X540
REMOTE CONTROL RECEIVER MODULE:	EP93X480
REMOTE CONTROL TRANSMITTER:	EP62X196
STEREO AMPLIFIER CIRCUIT BOARD:	EP93X512
TOP TUNING CIRCUIT BOARD:	EP93X517
VIR MODULE:	EP93X462
SPEAKER: 8 ohm 2" Tweeter (2 Used)	EP95X41
SPEAKER: 8 ohm 4" Woofer (2 Used)	EP95X42
MP1-130 TUNER CONTROL BOARD:	EP93X541
USER'S MANUAL:	29-9219-84





25PP5870K w/Transmitter

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4150	EP49X492	BALANCE-15K ohm, 20%
R4155	EP49X492	BASS-15K ohm, 20%
R4160	EP49X492	TREBLE-15K ohm, 20%
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K ohm, 20%, Detent
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R5010	EP49X458	AUDIO LEVEL-50K ohm, 20%
R5011	EP49X458	AUDIO LEVEL-50K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%
TSW4001	EP39X206	SWITCH-On/Off, Push
TSW4002	EP39X206	SWITCH-Vol. Up, Push
TSW4003	EP39X206	SWITCH-Vol. Down, Push
TSW4004	EP39X206	SWITCH-Channel Up, Push
TSW4005	EP39X206	SWITCH-Channel Down, Push
TSW4006	EP39X206	SWITCH-T.V., Push
TSW4011	EP39X207	SWITCH-Loudness/Defeat
TSW4012	EP39X207	SWITCH-Mono/Stereo
TSW4014	EP39X207	SWITCH-Manual/VIR
SW5000	EP39X53	SWITCH-Mono/Stereo (Video I)
SW5001	EP39X53	SWITCH-Mono/Stereo (Video II)
SW5008	EP39X146	SWITCH-Cable Select, Slide Type
SW5300	EP39X134	SWITCH-Internal/External Audio

KNOBS

PART NO.	DESCRIPTION
EP47X60	BALANCE, TREBLE, & BASS
EP47X60	COLOR, TINT, BRIGHTNESS, & PICTURE
EP47X61	LOUDNESS, STEREO, & VIR
EP47X59	ON/OFF, VOL. UP/DOWN, CHANNEL UP/DOWN
EP47X62	MODE SWITCH

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP98X559	CABINET BACK-Hardboard
EP2X540	CLEAT-Power Cord Storage
ES3X29	CLIP-Antenna Terminal
★EP66X19	CORD-AC Power, Polarized
EP4X169	COVER-Service Information, Black, Plastic
EP8X127	JACK-Phono, J5001—J5009, J5015 & J5016
EP8X119	JACK-Telephone Type
EP4X427	OVERLAY-Rear Controls, Metal
EP34X70	SOCKET-8 Pins, Din
EP91X74	TUBE CAP-CRT Cover, Black Plastic

(Cont.)

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

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CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP2X594	BRACKET-CRT Corner Mounting, Metal
EP92X120	BRACKET-Tuner Control Mounting, Plastic
EP99X488	CABINET FRONT-Black, Plastic
EP41X151	CHANNEL NUMBER READOUT DISPLAY-Green
EP91X140	DOOR-Top Tuning Controls, Bronze, Plastic
EP2X619	DOOR ARM ASSEMBLY
EP2X596	DOOR CATCH
EP2X593	DOOR HINGES
EP2X644	DOOR LATCH ASSEMBLY
EP4X474	DOOR LOCK
EP4X475	DOOR PIN
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP4X513	OVERLAY-Top Tuning Controls, Black, Plastic
EP4X512	OVERLAY-Secondary Controls, Black, Plastic
EP41X14	STEREO INDICATOR-Red, TY4001
EP41X14	BILINGUAL-Red, TY4002
EP41X14	VIR-Red, TY4003 & TY4005
EP1X46	RETAINER-Speaker Grille Mounting (14 Used)
EP3X56	SPRING-CRT Ground (2 Used)
EP3X54	SWITCH PAD-Foam

MISCELLANEOUS

PART NO.	DESCRIPTION
EP68X7	CASTER-W/Socket

IMPORTANT SAFETY NOTICE

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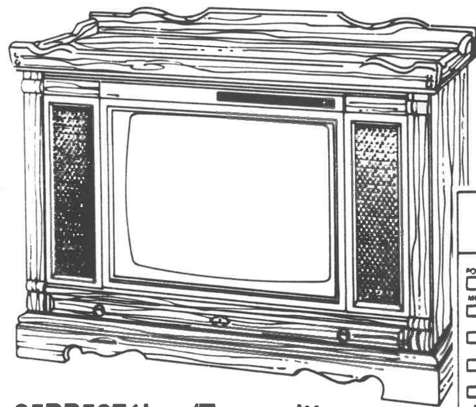
GENERAL ELECTRIC
VIDEO PRODUCTS BUSINESS DIVISON
PORTSMOUTH, VA 23705

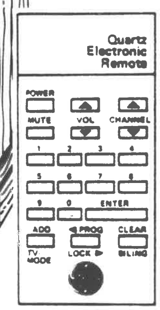
PM CHASSIS
25PP5871LC01
25PP5872KC01

SERVICE INFORMATION — **PM CHASSIS MODEL PAGE**

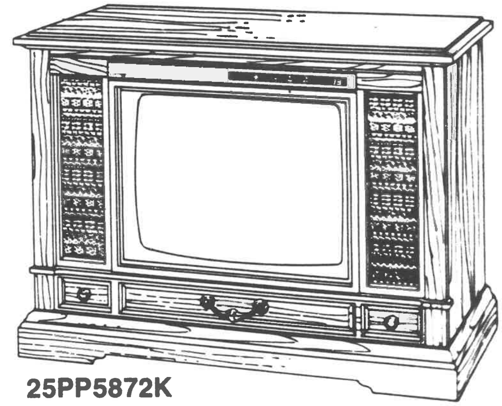
CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	25" PM-C
TUNING SYSTEM:	MP1-130
PICTURE TUBE:	★A63ABZ40X
UHF/VHF TUNER:	★EP93X502
AUDIO/VIDEO CIRCUIT BOARD:	EP93X522
DUAL 10 WATT AUDIO CIRCUIT BOARD: EP93X512	
LIGHT DEPENDENT RESISTOR BOARD:	EP41X146
POWER SUPPLY CIRCUIT BOARD:	★EP93X515
REMOTE CONTROL RECEIVER MODULE:	EP93X480
REMOTE CONTROL TRANSMITTER:	EP62X196
RF SWITCH-W/RELAY BOARD:	EP39X215
SOUND PLUS CIRCUIT BOARD:	EP93X438
TOP TUNING CIRCUIT BOARD:	EP93X517
VIR MODULE:	EP93X462
SPEAKER: 8 Ohm, 4" (2 Used)	EP95X42
SPEAKER: 8 ohm, 2" (2 Used)	EP95X41
MP1-130 TUNER CONTROL BOARD:	EP93X541
USER'S MANUAL:	29-9220-84





25PP5871L w/Transmitter



25PP5872K

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4150	EP49X492	BALANCE-15K ohm, 20%
R4155	EP49X492	BASS-15K ohm, 20%
R4160	EP49X492	TREBLE-15K ohm, 20%
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K ohm, 20%
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R5010	EP49X458	AUDIO LEVEL-50K ohm, 20%
R5011	EP49X458	AUDIO LEVEL-50K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%
SW4001	EP39X206	SWITCH-On/Off, Push
SW4002	EP39X206	SWITCH-Vol. Up, Push
SW4003	EP39X206	SWITCH-Vol. Down, Push
SW4004	EP39X206	SWITCH-Channel Up, Push
SW4005	EP39X206	SWITCH-Channel Down, Push
SW4006	EP39X206	SWITCH-T.V., Push
SW4011	EP39X207	SWITCH-Loudness/Defeat, Push
SW4012	EP39X207	SWITCH-Mono/Stereo, Push
SW4014	EP39X207	SWITCH-Manual/VIR, Push
S5001	ES39X21	SWITCH-Mono/Stereo (Video II) Slide Type
SW5008	EP39X146	SWITCH-Cable Select, Slide Type
S5300	EP39X134	SWITCH-On/Off External Amplifiers,

Slide Type

KNOBS

PART NO.	DESCRIPTION
EP47X59	ON/OFF, VOL. UP & DOWN CHANNEL UP & DOWN
EP47X66	COLOR, TINT, BRIGHTNESS & CONTRAST
EP47X66	BALANCE, TREBLE, & BASS
EP47X61	VIR, LOUDNESS, STEREO
EP47X62	MODE

(Cont.)

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CABINET BACK PARTS

PART NO.	DESCRIPTION
PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP37X84	ANTENNA TERMINAL BOARD-Complete
EP98X531	CABINET BACK-Hardboard (25PP5871L)
EP98X532	CABINET BACK-Hardboard (25PP5872K)
EP2X540	CLEAT-Power Cord Storage
ES3X29	CLIP-Antenna Terminal
★EP66X19	CORD-AC Power, Polarized
EP4X169	COVER-Service Information, Black, Plastic
EP8X127	JACK-Stereo IF Input, Phono Type
EP8X127	JACK-Phono Type, J5001—J5009
EP8X127	JACK-Phono Type, J5015/J5016
EP8X119	JACK-Telephone Type, J5000/J5001
EP4X427	OVERLAY-Rear Controls, Alum.
EP91X74	TUBE CAP-CRT Cover, Black Plastic

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP2X594	BRACKET-CRT Corner Mounting, Metal
EP99X485	CABINET FRONT-Black, Plastic
EP41X151	CHANNEL NUMBER READOUT DISPLAY-Green
EP91X22	DOOR-Top Tuning, Plastic
EP2X619	DOOR ARM ASSEMBLY
EP2X596	DOOR CATCH
EP2X593	DOOR HINGES-Pin
EP2X607	DOOR LATCH ASSEMBLY
EP4X474	DOOR LOCK
EP4X475	DOOR PIN
	GRILLE-Speaker
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP54X251	OVERLAY-Primary Controls, Black, Lexan
EP54X250	OVERLAY-Secondary Controls, Black, Lexan
EP41X14	PILOT LIGHT-Indicators, Red
EP34X70	SOCKET-Ext Stereo, 8 Pins
EP3X56	SPRING-CRT Ground
EP3X54	SWITCH PAD
EP2X600	WINDOW SLOT BARRIER-Plastic (5 Used)

MISCELLANEOUS

PART NO.	DESCRIPTION
EP68X7	CASTERS-W/Socket
EP4X180	DECORATIVE KEYWAY-(25PP5872K)
EP4X182	KNOB-Decorative (Order Two)

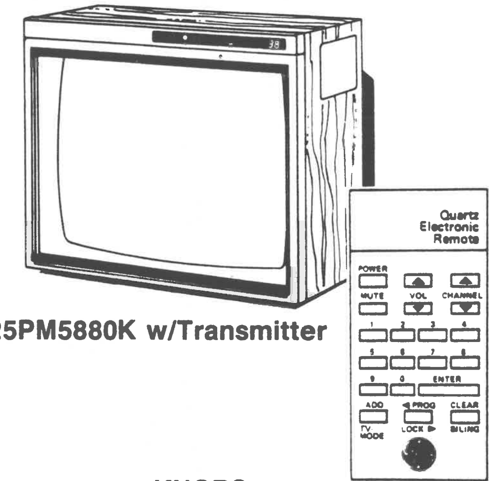
GENERAL ELECTRIC

VIDEO PRODUCTS BUSINESS DIVISON
PORTSMOUTH, VA 23705

PM CHASSIS
25PM5880KC01

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	25" PM-C
TUNING SYSTEM:	MP1-130
PICTURE TUBE:	★A63ABZ40X
UHF/VHF TUNER:	★EP93X502
AUDIO/VIDEO CIRCUIT BOARD:	EP93X522
STEREO AMPLIFIER CIRCUIT BOARD:	EP93X512
LIGHT DEPENDENT RESISTOR BOARD:	EP41X146
POWER SUPPLY CIRCUIT BOARD:	★EP93X515
SOUND PLUS CIRCUIT BOARD:	EP93X438
TOP TUNING CIRCUIT BOARD:	EP93X517
RF SWITCH ASSEMBLY	EP39X215
RELAY CIRCUIT BOARD:	EP93X540
REMOTE CONTROL RECEIVER MODULE:	EP93X480
REMOTE CONTROL TRANSMITTER:	EP62X196
VIR MODULE:	EP93X462
SPEAKER: 8 Ohm, 4" (2 Used)	EP95X40
MP1-130 TUNER CONTROL BOARD:	EP93X541
USER'S MANUAL:	29-9221-84



25PM5880K w/Transmitter

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4150	EP49X492	BALANCE-15K ohm, 20%, Detent
R4155	EP49X492	BASS-15K ohm, 20%, Detent
R4160	EP49X492	TREBLE-15K ohm, 20%, Detent
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K ohm, 20%, Detent
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R5010	EP49X458	AUDIO LEVEL-50K ohm, 20% (Front)
R5011	EP49X458	AUDIO LEVEL-50K ohm, 20% (Rear)
R5260	EP49X395	SHARPNESS-1K ohm, 20%
TSW4001	EP39X206	SWITCH-On/Off, Push
TSW4002	EP39X206	SWITCH-Vol. Up, Push
TSW4003	EP39X206	SWITCH-Vol. Down, Push
TSW4004	EP39X206	SWITCH-Channel Up, Push
TSW4005	EP39X206	SWITCH-Channel Down, Push
TSW4006	EP39X206	SWITCH-T.V., Push
TSW4011	EP39X207	SWITCH-Loudness/Defeat
TSW4012	EP39X207	SWITCH-Mono/Stereo
TSW4014	EP39X207	SWITCH-Manual/VIR,
SW5000	ES39X21	SWITCH-Mono/Stereo (Video I)
SW5001	ES39X21	SWITCH-Mono/Stereo (Video II)
SW5008	EP39X146	SWITCH-Cable Select, Slide Type
SW5300	EP39X134	SWITCH-On/Off External Amplifiers

KNOBS

PART NO.	DESCRIPTION
EP47X66	COLOR, TINT, BRIGHTNESS, & PICTURE-W/Retainer
EP47X66	BASS, TREBLE, BALANCE-W/Retainer
EP47X59	ON/OFF, VOL. UP/DOWN, & CHANNEL UP/DOWN
EP47X61	VIR-Push/Push
EP47X61	LOUDNESS-Push/Push
EP47X61	STEREO-Push/Push
EP47X62	MODE SWITCH

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP37X80	AMP SPEAKER ASSEMBLY
EP98X526	CABINET BACK-Plastic
EP2X540	CLEAT-Power Cord Starage, Plastic
ES3X29	CLIP-Antenna Terminal
★EP66X19	CORD-AC Power, Polarized
EP4X175	COVER-Service Information, Black, Plastic
EP8X128	JACK-Headphones, J4000
EP8X127	JACK-Phono Type, J5015 & J5016
EP8X136	JACK-Telephone Type, J5200 & J5201
EP4X427	OVERLAY-Rear Controls, Alum.
EP8X137	PLUG-Telephone Type

(Cont.)

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CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP2X594	BRACKET-CRT Corner Mounting, Metal
EP2X600	BRACKET-For Ultra Vision Window, Holder, Plastic
EP99X481	CABINET FRONT-Black, Plastic
EP97X112	CABINET WRAP-Top & Sides, Alum. W/Vinyl Teak Woodgrain
EP41X151	CHANNEL NUMBER READOUT DISPLAY-Green
EP2X615	CLIP-Grille Mounting (12 Used)
EP4X467	DOOR-Top Tuning, Plastic
EP2X623	DOOR ARM ASSEMBLY
EP4X468	DOOR BUMPER
EP2X596	DOOR CATCH
EP2X607	DOOR LATCH
EP4X475	DOOR PIN
EP2X593	DOOR HINGE-(3 Used)
EP89X530	GRILLE-Speaker, Black
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP54X513	OVERLAY-Top Tuning, Black, Lexan
EP54X512	OVERLAY-Secondary Controls, Black, Lexan
EP54X249	OVERLAY-Headphone Jack, Black, Lexan
EP41X14	PILOT LIGHT-Stereo Indicator, Red, TY4001
EP41X14	PILOT LIGHT-Balingual Indicator, Red, TY4002
EP41X14	PILOT LIGHT-VIR Indicator, Red, TY4003
EP3X58	RETAINER-Speaker Mounting, Plastic (8 Used)
EP3X56	SPRING-CRT Ground
EP3X54	SWITCH PAD-Foam
EP94X7	WINDOW ASSEMBLY-Glass
EP2X592	WINDOW-Channel Top

MISCELLANEOUS

PART NO.	DESCRIPTION
EP91X106	CABINET BOTTOM-Black, Plastic

STEREO SPEAKER (SPK762)

MISCELLANEOUS

PART NO.	DESCRIPTION
EP31X106	3.3uf, 20%, 16V, Bi Polar, Elect.
EP8X133	CABLE-From Speaker To T.V.
EP4X420	OVERLAY-GE Nameplate
EP89X513	GRILLE CLOTH
EP95X43	SPEAKER-Woofer, 8"
EP95X44	SPEAKER-Tweeter, 2"
EP37X73	TERMINAL BLOCK-Plastic
	STAND-For Speaker (Optional) SPS762

(OPTIONAL) STORAGE CABINET (CRD880)

(BOTTOM STORAGE)

MISCELLANEOUS

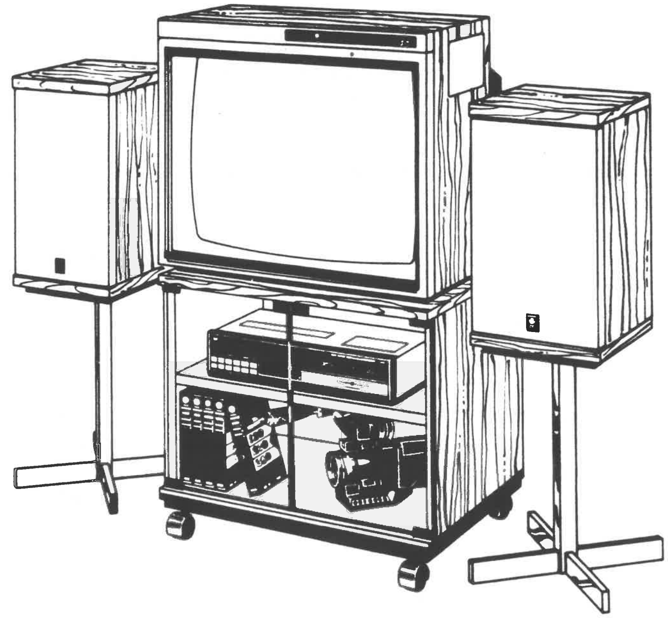
PART NO.	DESCRIPTION
EP68X11	CASTER
EP73X30	DOOR-Glass
EP2X602	HINGE-Glass Doors
EP2X605	LATCH
EP2X608	SHELVE RETAINER
EP2X603	STRIKER PLATE

(OPTIONAL) STORAGE CABINET (RCK880)

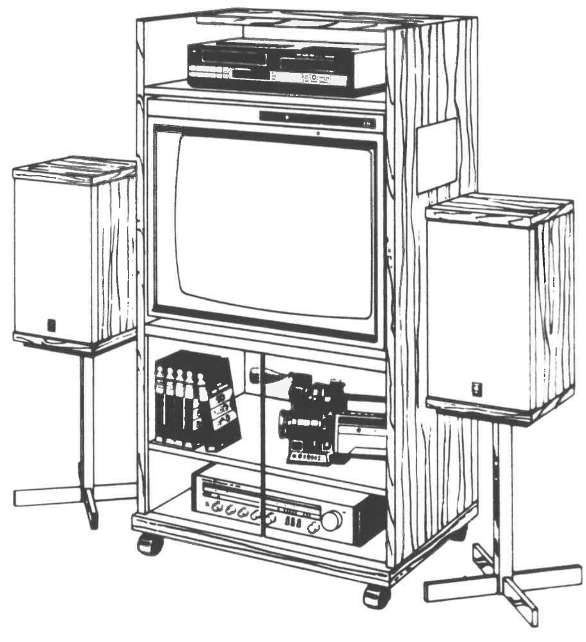
(TOP AND BOTTOM STORAGE)

MISCELLANEOUS

PART NO.	DESCRIPTION
EP68X11	CASTER
EP73X29	DOOR-Glass
EP2X602	HINGE-Glass Doors
EP2X605	LATCH
EP2X608	SHELVE RETAINER
EP2X603	STRIKER PLATE



25PM5880K
Shown with optional CRD 880S Storage Cabinet and SPK 762 Speakers on SPS 762 Stands.



25PM5880K
Shown with optional RCK 880S Storage Cabinet and SPK 762 Speakers on SPS 762 Stands.

GENERAL ELECTRIC

CONSUMER ELECTRONICS BUSINESS OPERATIONS
PORTSMOUTH, VA 23705

PM CHASSIS
19CP6738D01

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	19" PM-D
TUNING SYSTEM:	KMPS-130
PICTURE TUBE:	★A48ACE40X
UHF/VHF TUNER:	★EP93X574
AUDIO CIRCUIT BOARD:	EP93X626
LIGHT DEPENDENT RESISTOR BOARD:	EP41X146
MODE SWITCH CIRCUIT BOARD:	EP93X639
POWER SUPPLY CIRCUIT BOARD:	★EP93X604
VIR MODULE:	EP93X462
VIR/BILINGUAL SWITCH BOARD:	EP93X632
SPEAKER: 8 ohm, 3" (2 Used)	EP95X53
KMPS-130 TUNER CONTROL BOARD:	EP93X589
USER'S MANUAL:	29-9238-85

CONTROLS

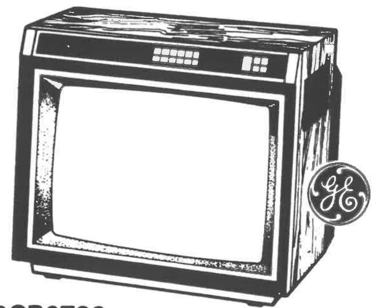
REF. NO.	PART NO.	DESCRIPTION
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K ohm, 20%, Detent
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R4400	EP49X491	TONE CONTROL-10K ohm, 20%
R5010	EP49X488	AUDIO LEVEL-50K ohm, 20%
R5011		AUDIO LEVEL-50K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%
SW12	EP39X207	SWITCH-Bilingual, Push
SW14	EP39X207	SWITCH-VIR, Push
S4010	EP39X213	SWITCH-Internal/External Audio, Rotary
S5000	EP39X25	SWITCH-Mono/Stereo (Video I), Slide Type
SW5008	EP39X146	SWITCH-Cable Select, Slide Type

KEYBOARD

PART NO.	DESCRIPTION
EP62X216	ON/OFF, VOL., & CHANNEL SELECT

KNOBS

PART NO.	DESCRIPTION
EP47X61	BUTTON-Bilingual & VIR
EP47X60	BUTTON-Color, Tint, Brightness, & Picture
EP47X60	BUTTON-Mono/Stereo & Tone Control



19CP6738

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP92X135	BRACKET-Antenna Terminal Board, Plastic
EP4X565	BRACKET-Antenna Hole Cover, Plastic
EP98X570	CABINET BACK-Black, Plastic
EP2X540	CLEAT-Power Cord Storage
ES3X29	CLIP-Antenna Terminal
★EP66X19	CORD-AC Power, Polarized
EP4X175	COVER-Service Information, Black, Plastic
EP8X127	JACKS-Phono Type (J5001—J5003 J5005-J5007 & J5009
EP2X635	RETAINER-Push Fastener (2 Used)
EP4X557	OVERLAY-Rear Controls, Alum.

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP92X143	BRACKETS-Escutcheon Mounting, Plastic
EP92X141	BRACKET-Speaker Mounting, Plastic
EP99X545	CABINET FRONT-Rosewood Woodgrain, Plastic
EP41X140	CHANNEL NUMBER READOUT DISPLAY-Green
EP4X555	DOOR-Keyboard Access, Black, Lexan
EP2X653	DOOR CATCH
EP2X652	DOOR HINGES
EP89X608	ESCUTCHEON-Primary Controls, Black, Plastic
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP54X260	OVERLAY-Label For Door, Black, Plastic
EP3X56	SPRING-CRT Ground
EP3X60	SWITCH PAD-Foam

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

IMPORTANT SAFETY NOTICE

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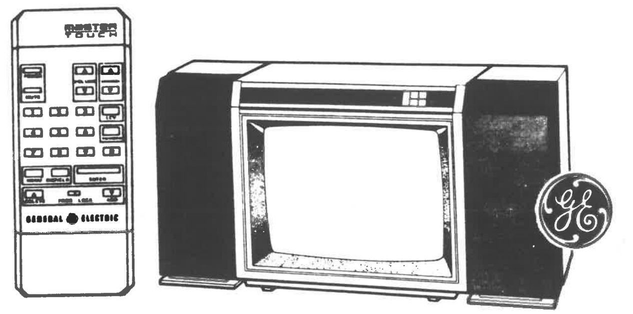
GENERAL ELECTRIC

CONSUMER ELECTRONICS BUSINESS OPERATIONS
PORTSMOUTH, VA 23705

PM CHASSIS
19CP6770D01

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	19" PM-D
TUNING SYSTEM:	MP3-130
PICTURE TUBE:	★A48ACE40X
UHF/VHF TUNER:	★EP93X574
AUDIO/VIDEO CIRCUIT BOARD:	EP93X571
LIGHT DEPENDENT RESISTOR BOARD:	EP41X146
POWER SUPPLY CIRCUIT BOARD:	★EP93X605
REMOTE CONTROL RECEIVER MODULE:	EP93X625
REMOTE CONTROL TRANSMITTER:	EP62X204
RF SWITCH ASSEMBLY:	EP93X612
SBA 800 STEREO/BILINGUAL ADAPTOR:	EP90X56
STEREO AMPLIFIER CIRCUIT BOARD:	EP93X512
VIR MODULE:	EP93X462
VIR/LOUDNESS SWITCH CIRCUIT BOARD:	EP93X633
MP3-130 TUNER CONTROL BOARD:	EP93X585
USER'S MANUAL:	29-9270-85



19CP6770

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4150	EP49X509	BALANCE-50K ohm, 20%
R4155	EP49X509	BASS-50K ohm, 20%
R4160	EP49X509	TREBLE-50K ohm, 20%
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K ohm, 20%
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10k ohm, 20%
R5010	EP49X458	AUDIO LEVEL-50K ohm, 20%
R5011		AUDIO LEVEL-50K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%
SW10	EP39X207	SWITCH-Loudness, Push
SW14	EP39X207	SWITCH-VIR, Push
S5000	EP39X53	SWITCH-Mono/Stereo (Video I), Slide Type
S5001	EP39X53	SWITCH-Mono/Stereo (Video II), Slide Type
SW5008	EP39X146	SWITCH-Cable Select, Slide Type
SW5300	EP39X134	SWITCH-Internal/External Audio

KEYBOARD

PART NO.	DESCRIPTION
EP62X217	ON/OFF, VOL., & CHANNEL SELECT

KNOBS

PART NO.	DESCRIPTION
EP47X61	BUTTON-VIR & Loundness, Black, Plastic
EP47X60	COLOR, TINT, BRIGHTNESS, & PICTURE-Black, W/Retainer
EP47X60	TREBLE, BASS, & BALANCE-Black, W/Retainer

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP4X565	BRACKET-Antenna Hole Cover, Plastic
EP92X137	BRACKET-Antenna Terminal Board, Plastic
EP98X571	CABINET BACK-Black, Plastic
EP2X540	CLEAT-Power Cord Storage
ES3X29	CLIP-Antenna Terminal
★EP66X19	CORD-AC Power, Polarized
EP4X530	COVER-Service Information, Black, Plastic
EP8X127	JACK-Phono Type (J5015 & J5016)
EP4X427	OVERLAY-Rear Controls, Alum.
EP2X635	RETAINER-Push Fastener (2 Used)
EP34X70	SOCKET-Exterinal Stereo, 8 Pins
EP8X129	STEREO SPEAKER CONNECTION-Push Terminal

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP92X141	BRACKET-Speaker Mounting, Plastic
EP92X142	BRACKET-Remote Receiver Mounting, Plastic
EP92X143	BRACKET-Escutcheon Mounting, Plastic
EP99X546	CABINET FRONT-Black, Plastic

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

IMPORTANT SAFETY NOTICE

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EP41X140	CHANNEL NUMBER READOUT DISPLAY-Green
EP4X555	DOOR-Keyboard Access, Black, Plastic
EP2X653	DOOR CATCH
EP2X652	DOOR HINGES
EP89X609	ESCUTCHEON-Primary Controls, Black, Lexan
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP54X261	OVERLAY-Label For Door, Plastic
EP3X56	SPRING-CRT Ground
EP3X60	SWITCH PAD-Foam

SPEAKERS

PART NO.	DESCRIPTION
EP31X106	CAPACITOR-3.3uf, 20%, 25V, Bi Polar, Elect.
EP1X46	FASTENER-Grille Mounting (8 Used)
EP8X188	SPEAKER CABLE
EP95X56	SPEAKER-8 ohm, 2" (2 Used)
EP95X40	SPEAKER-8 ohm, 4" (2 Used)

GENERAL ELECTRIC

CONSUMER ELECTRONICS BUSINESS OPERATIONS
PORTSMOUTH, VA 23705

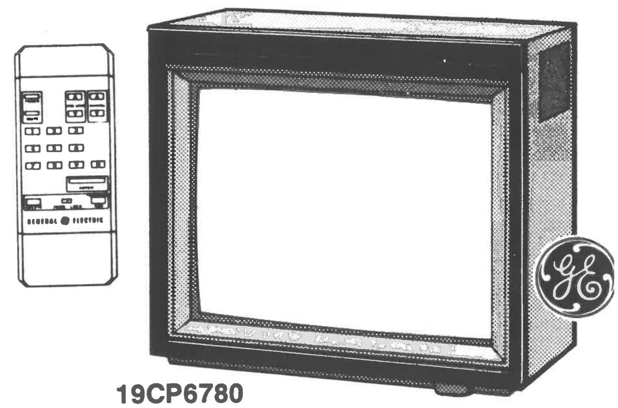
PM CHASSIS
19CP6780C01

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	19" PM-C
TUNING SYSTEM:	MP1-130
PICTURE TUBE:	★A48ACE40X
UHF/VHF TUNER:	★EP93X574
AUDIO/VIDEO CIRCUIT BOARD:	EP93X628
LIGHT DEPENDENT RESISTOR BOARD:	EP41X146
POWER SUPPLY CIRCUIT BOARD:	★ EP93X515
REMOTE CONTROL RECEIVER MODULE:	EP93X483
REMOTE CONTROL TRANSMITTER:	EP62X196
RF SWITCH CIRCUIT BOARD:	EP39X215
STEREO AMPLIFIER CIRCUIT BOARD:	EP93X512
TOP TUNING CIRCUIT BOARD:	EP93X516
VIR MODULE:	EP93X463
SPEAKER: 8 ohm, 4"	EP95X40
MP1-130 TUNER CONTROL BOARD:	EP93X541
USER'S MANUAL:	29-9280-85

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4150	EP49X492	BALANCE-15K ohm, 20%, Detent
R4155	EP49X492	BASS-15K ohm, 20%, Detent
R4160	EP49X492	TREBLE-15K ohm, 20%, Detent
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K ohm, 20%, Detent
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R5010	EP49X458	AUDIO LEVEL-Front, 50K ohm, 20%
R5011		AUDIO LEVEL-Rear, 50K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%
TSW4001	EP39X206	SWITCH-On/Off, Push
TSW4002	EP39X206	SWITCH-Vol. Up, Push
TSW4003	EP39X206	SWITCH-Vol. Down, Push
TSW4004	EP39X206	SWITCH-Channel Up, Push
TSW4005	EP39X206	SWITCH-Channel Down, Push
TSW4006	EP39X206	SWITCH-T.V., Push
TSW4011	EP39X207	SWITCH-Loudness/Defeat
TSW4012	EP39X207	SWITCH-Mono/Stereo
TSW4014	EP39X207	SWITCH-Manual/VIR
SW5000	EP39X53	SWITCH-Mono/Stereo (Video I)
SW5001	EP39X53	SWITCH-Mono/Stereo (Video II)
SW5008	EP39X146	SWITCH-Cable Select, Slide Type
SW5300	EP39X134	SWITCH-Internal/External Audio, Slide Type



19CP6780

KNOBS

PART NO.	DESCRIPTION
EP47X60	BALANCE, BASS, & TREBLE
EP47X60	COLOR, TINT, BRIGHTNESS, & PICTURE
EP47X61	LOUDNESS, VIR & STEREO
EP47X59	ON/OFF, VOL. UP/DOWN, CHANNEL UP/DOWN
EP47X62	TV/MODE

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP37X79	AMP/SPEAKER JACK TERMINAL ASSEMBLY
EP83X22	ANTENNA CUSTOMER CHANGEABLE-VHF Complete
EP83X13	ANTENNA-UHF Bowtie Type
EP83X17	ANTENNA-VHF, Fold-Down
EP2X585	BRACKET-VHF Antenna Mounting, Plastic
EP92X137	BRACKET-Antenna Terminal Board, Plastic
EP92X124	BRACKET-Tuner Control, Audio, Etc. Mounting, Plastic
EP98X479	CABINET BACK-Black, Plastic
EP2X540	CLEAT-Power Cord Storage
ES3X29	CLIP-Antenna Terminal
★EP66X19	CORD-AC Power, Polarized

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

IMPORTANT SAFETY NOTICE

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EP4X175	COVER-Service Information, Black, Plastic
EP8X128	JACK-Headphone, J4000
EP8X127	JACK-Phono Type, J5001, J5009, J5015, J5016, J5200 & J5201
EP4X427	OVERLAY-Rear Controls, Metal
EP8X137	PLUG-Stereo Connection, Telephone Type
EP2X635	RETAINER-Push Fastener (2 Used)

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP99X550	CABINET FRONT-Black, Plastic
EP97X118	CABINET WRAP-Top & Sides, Metal W/Pewter Vinyl
EP41X151	CHANNEL NUMBER READOUT DISPLAY-Green
EP91X144	DOOR-Top Tuning, Black
EP2X637	DOOR ARM ASSEMBLY
EP4X468	DOOR BUMPER
EP4X426	DOOR HINGES
EP89X530	GRILLE-Speaker
EP2X584	LIGHT PIPE-Light Sensor, Plastic, W/Spacer
EP4X472	OVERLAY-Top Tuning Controls
EP4X471	OVERLAY-Secondary Controls
EP41X14	PILOT LIGHT-Stereo Indicator, Red, TY4001, TY4002
EP41X14	PILOT LIGHT-VIR, Red, TY4003, TY4005
EP2X615	RETAINER-Grille Mounting (12 Used)
EP3X58	RETAINER-Speaker Mounting (8 Used)
EP2X654	RETAINER-Window
EP3X56	SPRING-CRT Ground
EP3X54	SWITCH PAD-Foam
EP94X6	WINDOW-CRT Cover, Glass
EP2X657	WINDOW GUIDE-Slide

MISCELLANEOUS

PART NO.	DESCRIPTION
EP91X97	CABINET BOTTOM-Black, Plastic

GENERAL ELECTRIC

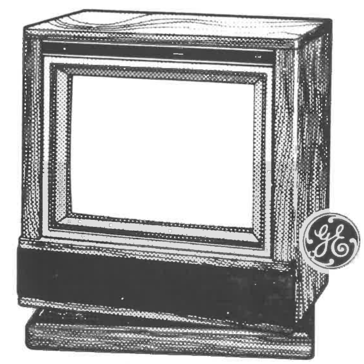
CONSUMER ELECTRONICS BUSINESS OPERATIONS
PORTSMOUTH, VA 23705

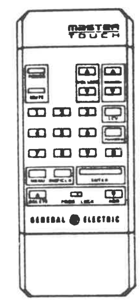
PM CHASSIS
26CP6863D01

SERVICE INFORMATION — **PM CHASSIS MODEL PAGE**

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	26" PM-D
TUNING SYSTEM:	MP3-130
PICTURE TUBE:	★A66ACZ40X
UHF/VHF TUNER:	★EP93X574
AUDIO/VIDEO CIRCUIT BOARD:	EP93X571
LIGHT DEPENDENT RESISTOR BOARD:	EP41X146
POWER SUPPLY CIRCUIT BOARD:	★EP93X609
MCS DECORDER CIRCUIT BOARD:	EP90X56
REMOTE CONTROL RECEIVER MODULE:	EP93X582
REMOTE CONTROL TRANSMITTER:	EP62X204
RF SWITCH CIRCUIT BOARD:	EP93X612
STEREO AMPLIFIER CIRCUIT BOARD:	EP93X512
TOP TUNING CIRCUIT BOARD:	EP93X630
VIR MODULE:	EP93X553
SPEAKER: 8 ohm, 2" (2 Used)	EP95X56
SPEAKER: 8 ohm, 4" (2 Used)	EP95X42
MP3-130 TUNER CONTROL BOARD:	EP93X585
USER'S MANUAL:	29-9663-85





26CP6863

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4150	EP49X509	BALANCE-50K ohm, 20%, Detent
R4155	EP49X509	BASS-50K ohm, 20%, Detent
R4160	EP49X509	TREBLE-50K ohm, 20%, Detent
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K ohm, 20%, Detent
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R5010	EP49X458	AUDIO LEVEL-Front, 50K ohm, 20%
R5011		AUDIO LEVEL-Rear, 50K ohm, 20%
R5260	EP49X512	SHARPNESS-1K ohm, 20%
RV15/RV39	EP49X511	VIR PREFERENCE-5K ohm, 20%
SW01	EP39X150	SWITCH-ON/Off
SW02	EP39X150	SWITCH-Vol Up
SW03	EP39X150	SWITCH-Vol Down
SW04	EP39X150	SWITCH-Channel Up
SW05	EP39X150	SWITCH-Channel Down
SW06	EP39X207	SWITCH-VIR
SW08	EP39X207	SWITCH-Loudness
SW09	EP39X150	SWITCH-Display Screen/Clear
SW11	EP39X150	SWITCH-TV/Video
SW5000	EP39X53	SWITCH-Mono/Stereo (Video I), Slide Type
SW5001	EP39X53	SWITCH-Mono/Stereo (Video II), Slide Type
SW5008	EP39X146	SWITCH-Cable Select, Slide Type
SW5300	EP39X134	SWITCH-Internal/External Audio, Slide Type

KNOBS

PART NO.	DESCRIPTION
EP47X60	COLOR, TINT, BRIGHTNESS, PICTURE & SHARPNESS
EP47X78	ON/OFF, VOL. UP/DOWN, & CHANNEL UP/DOWN
EP47X79	TV/VIDEO & DISPLAY SCREEN/CLEAR
EP47X61	VIR & LOUDNESS
EP47X60	VIR PREFERENCE

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP92X137	BRACKET-Antenna Terminal Board
EP98X586	CABINET BACK-Hardboard
EP2X540	CLEAT-Power Cord Storage
ES3X29	CLIP-Antenna Terminal
★EP66X19	CORD-AC Power, Polarized
EP4X530	COVER-Service Information, Black, Plastic
EP8X127	JACK-Phono, J5001—J5009, J5015 & J5016
EP4X427	OVERLAY-Rear Controls, Metal
EP91X141	TUBE CAP-CRT Cover, Black Plastic

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

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CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP2X648	BRACKET-CRT Corner Mounting, Lexan
EP99X554	CABINET FRONT-Black, Plastic
EP92X152	DOOR-Top Tuning, Alum.
EP2X666	DOOR ACTUATOR
EP2X647	DOOR BUMPER
EP2X661	DOOR LOCK
EP3X62	DOOR SPRING-(2 Used)
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP54X264	OVERLAY-Top Tuning, Black, Lexan
EP54X265	OVERLAY-Secondary Controls, Black, Lexan
EP41X14	PILOT LIGHT-L.E.D.-VIR, TY01
EP41X14	PILOT LIGHT-L.E.D.-Bilingual, Red, TY02
EP41X14	PILOT LIGHT-L.E.D.-Stereo, Red, TY03
EP1X46	RETAINER-Speaker Grille Mounting, Fastener (12 Used)
EP3X56	SPRING-CRT Ground
EP3X54	SWITCH PAD-Foam

MISCELLANEOUS

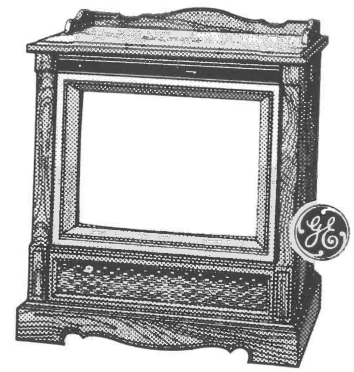
PART NO.	DESCRIPTION
EP68X18	CASTER

GENERAL ELECTRIC
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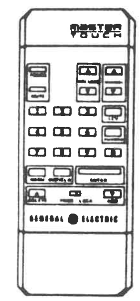
PM CHASSIS
26CP6864C01
26CP6865D01

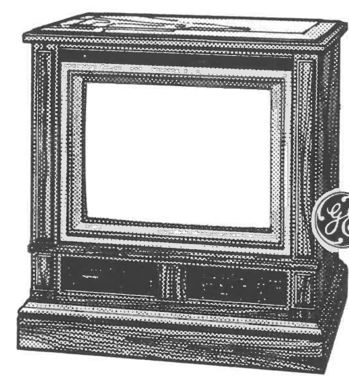
CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	26" PM-D
TUNING SYSTEM:	MP3-130
PICTURE TUBE:	★A66ACZ40X
UHF/VHF TUNER:	★EP93X574
AUDIO/VIDEO CIRCUIT BOARD:	EP93X571
LIGHT DEPENDENT RESISTOR BOARD:	EP41X146
POWER SUPPLY CIRCUIT BOARD:	★EP93X609
REMOTE CONTROL RECEIVER MODULE:	EP93X582
REMOTE CONTROL TRANSMITTER:	EP62X204
RF SWITCH CIRCUIT BOARD:	EP93X612
SBA 800 STEREO/BILINGUAL ADAPTOR:	EP90X56
STEREO AMPLIFIER CIRCUIT BOARD:	EP93X512
TOP TUNING CIRCUIT BOARD:	EP93X630
VIR MODULE:	EP93X542
SPEAKER: 8 ohm, 2" (2 Used)	EP95X56
SPEAKER: 8 ohm, 4" (2 Used)	EP95X42
MP3-130 TUNER CONTROL BOARD:	EP93X585
USER'S MANUAL:	29-9663-85



26CP6864





26CP6865

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4150	EP49X509	BALANCE-50K ohm, 20%
R4155	EP49X509	BASS-50K ohm, 20%
R4160	EP49X509	TREBLE-50K ohm, 20%
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K ohm, 20%, Detent
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R5010	EP49X458	AUDIO LEVEL-Front, 50K ohm, 20%
R5011		AUDIO LEVEL-Rear, 50K ohm, 20%
R5260	EP49X512	SHARPNESS-1K ohm, 20%
RV39	EP49X511	VIR PREFERENCE-5K ohm, 20%
SW01	EP39X150	SWITCH-ON/Off
SW02	EP39X150	SWITCH-Vol Up
SW03	EP39X150	SWITCH-Vol Down
SW04	EP39X150	SWITCH-Channel Up
SW05	EP39X150	SWITCH-Channel Down
SW06	EP39X207	SWITCH-VIR
SW08	EP39X207	SWITCH-Loudness
SW09	EP39X150	SWITCH-Display Screen/Clear
SW11	EP39X150	SWITCH-TV/Video
SW5000	EP39X53	SWITCH-Mono/Stereo (Video I), Slide Type
SW5001	EP39X53	SWITCH-Mono/Stereo (Video II), Slide Type
SW5008	EP39X146	SWITCH-Cable Select, Slide Type
SW5300	EP39X134	SWITCH-Internal/External Audio, Slide Type

KNOBS

PART NO.	DESCRIPTION
EP47X60	BALANCE, TREBLE, & BASS
EP47X60	COLOR, TINT, BRIGHTNESS, SHARPNESS, & PICTURE
EP47X60	COLOR/TINT PREFERENCE
EP47X78	ON/OFF, VOL. UP/DOWN & CHANNEL UP/DOWN
EP47X79	TV/VIDEO & DISPLAY SCREEN CLEAR
EP47X61	VIR & LOUDNESS

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

IMPORTANT SAFETY NOTICE

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CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP92X137	BRACKET-Antenna Terminal Board, Plastic
EP98X592	CABINET BACK-Hardboard (26CP6864)
EP98X593	CABINET BACK-Hardboard (26CP6865)
EP2X540	CLEAT-Power Cord Storage
ES3X29	CLIP-Antenna Terminal
★EP66X19	CORD-AC Power, Polarized
EP4X530	COVER-Service Information, Black, Plastic
EP8X127	JACK-Phono Type, J5102, J5001—J5009, J5015, & J5016
EP4X427	OVERLAY-Rear Controls, Metal
EP8X119	PLUG-Stereo Connection
EP34X70	SOCKET-Din, 8 Pins
EP91X141	TUBE CAP-CRT Cover, Black Plastic

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP2X648	BRACKET-CRT Corner Mounting, Lexan
EP92X148	BRACKET-Top Tuning Board Mounting, Plastic
EP99X554	CABINET FRONT-Black, Plastic
EP91X152	DOOR-Top Tuning
EP2X666	DOOR ACTUATOR
EP2X647	DOOR BUMPER
EP2X661	DOOR LOCK
EP3X62	DOOR SPRING-(2 Used)
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP54X264	OVERLAY-Top Tuning, Black
EP54X265	OVERLAY-Secondary Controls, Black
EP41X14	PILOT LIGHT-L.E.D., VIR, Red, TY01
EP41X14	PILOT LIGHT-L.E.D., Bilingual, Red, TY02
EP41X14	PILOT LIGHT-L.E.D., Stereo, Red, TY03
EP1X46	RETAINER-Speaker Grille Mounting (14 Used)
EP3X56	SPRING-CRT Ground
EP3X54	SWITCH PAD-Foam

MISCELLANEOUS

PART NO.	DESCRIPTION
EP68X7	CASTER-W/Socket

IMPORTANT SAFETY NOTICE

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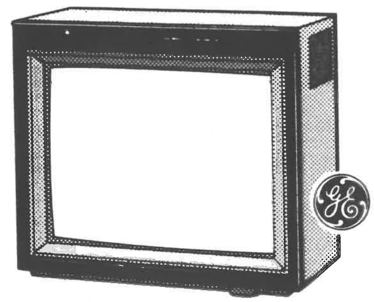
GENERAL ELECTRIC

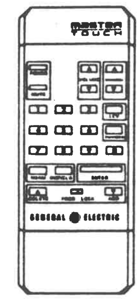
CONSUMER ELECTRONICS BUSINESS OPERATIONS
PORTSMOUTH, VA 23705

PM CHASSIS
26CP6869D01

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	26" PM-D
TUNING SYSTEM:	MP3-130
PICTURE TUBE:	★A66ACZ40X
UHF/VHF TUNER:	★EP93X574
AUDIO/VIDEO CIRCUIT BOARD:	EP93X571
LIGHT DEPENDENT RESISTOR BOARD:	EP41X146
POWER SUPPLY CIRCUIT BOARD:	★EP93X609
REMOTE CONTROL RECEIVER MODULE:	EP93X582
REMOTE CONTROL TRANSMITTER:	EP62X204
RF SWITCH ASSEMBLY:	EP93X612
SBA 800 STEREO/BILINGUAL ADAPTOR:	EP90X56
STEREO AMPLIFIER CIRCUIT BOARD:	EP93X512
TOP TUNING CIRCUIT BOARD:	EP93X630
VIR MODULE:	EP93X553
SPEAKER: 8 ohm, 4" (2 Used)	EP95X40
SPEAKER: 8 ohm, 40mm (2 Used)	EP95X55
MP3-130 TUNER CONTROL BOARD:	EP93X585
USER'S MANUAL:	29-9663-85





26CP6869

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4150	EP49X509	BALANCE-50K ohm, 20%, Detent
R4155	EP49X509	BASS-50K ohm, 20%, Detent
R4160	EP49X509	TREBLE-50K ohm, 20%, Detent
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K ohm, 20%, Detent
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R5010	EP49X458	AUDIO LEVEL-Front, 50K ohm, 20%
R5011		AUDIO LEVEL-Rear, 50K ohm, 20%
R5260	EP49X512	SHARPNESS-1K ohm, 20%
RV15/RV39	EP49X511	VIR PREFERENCE-5K ohm, 20%
SW01	EP39X150	SWITCH-ON/Off
SW02	EP39X150	SWITCH-Vol Up
SW03	EP39X150	SWITCH-Vol Down
SW04	EP39X150	SWITCH-Channel Up
SW05	EP39X150	SWITCH-Channel Down
SW06	EP39X207	SWITCH-VIR
SW08	EP39X207	SWITCH-Loudness
SW09	EP39X150	SWITCH-Display Screen/Clear
SW11	EP39X150	SWITCH-TV/Video
SW5000	EP39X53	SWITCH-Mono/Stereo (Video I), Slide Type
SW5001	EP39X53	SWITCH-Mono/Stereo (Video II), Slide Type
SW5008	EP39X146	SWITCH-Cable Select, Slide Type
SW5300	EP39X134	SWITCH-Internal/External Audio, Slide Type

KNOBS

PART NO.	DESCRIPTION
EP47X60	COLOR, TINT, BRIGHTNESS, SHARPNESS & PICTURE
EP47X61	LOUDNESS & VIR
EP47X78	ON/OFF VOL. UP/DOWN & CHAN-NEL UP/DOWN
EP47X60	TREBLE, BALANCE, & BASS
EP47X79	TV/VIDEO & DISPLAY SCREEN CLEAR
EP47X60	VIR PREFERENCE

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP92X137	BRACKET-Antenna Terminal Board, Plastic
EP92X121	BRACKET-Amp Speaker Terminal, Plastic
EP98X587	CABINET BACK-Black, Plastic
EP2X540	CLEAT-Power Cord Storage
ES3X29	CLIP-Antenna Terminal
★EP66X19	CORD-AC Power, Polarized
EP4X530	COVER-Service Information, Black, Plastic
EP8X127	JACK-Phono Type, J5001—J5009
EP8X127	JACK-External Amplifiers, Phono Type, J5015 & J5016
EP8X127	JACK-Stereo IF Input, Phono Type, J5102

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

IMPORTANT SAFETY NOTICE

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EP8X136	JACK-External Speaker, Phono Type, J5200 & J5201,
EP4X427	OVERLAY-Rear Controls, Metal
EP8X137	PLUG-External Speaker Connection (2 Packed W/Unit)
EP34X70	SOCKET-External Stereo, 8 Pins

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP2X648	BRACKET-CRT Corner Mounting, Lexan
EP92X148	BRACKET-Top Tuning Board Mounting, Plastic
EP2X600	BARRIER-Window Slot
EP99X555	CABINET FRONT-Black, Plastic
EP97X119	CABINET WRAP-Top & Sides, W/Black, Vinyl
EP91X150	DOOR-Top Tuning, Alum.
EP2X666	DOOR ACTUATOR
EP2X647	DOOR BUMPER
EP3X62	DOOR SPRING
EP89X530	GRILLE-Speaker (2 Used)
EP8X128	JACK-Headphone
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP54X264	OVERLAY-Primary Controls
EP54X249	OVERLAY-Headphone Jack
EP54X265	OVERLAY-Secondary Controls
EP41X14	PILOT LIGHT-L.E.D., VIR, TY01
EP41X14	PILOT LIGHT-L.E.D., Bilingual, Red, TY02
EP41X14	PILOT LIGHT-L.E.D., Stereo, Red, TY03
EP2X615	RETAINER-Grille Mounting (12 Used)
EP3X58	RETAINER-Speaker Mounting (8 Used)
EP3X56	SPRING-CRT Ground
EP3X59	SPRING-Top Tuning Door Mounting (2 Used)
EP3X54	SWITCH PAD-Foam
EP94X8	WINDOW-Glass CRT Cover

MISCELLANEOUS

PART NO.	DESCRIPTION
EP91X151	CABINET BOTTOM-Black, Plastic

(OPTIONAL) RACK 1RCK869

(TOP AND BOTTOM STORAGE)

MISCELLANEOUS

PART NO.	DESCRIPTION
EW2X2481	BASE HINGE-Stamped -1
EW2X2471	BASE HINGE-Stamped -2
EW68X3	CASTER
EW73X53	DOOR-Bottom, Glass
EW2X2473	HINGE-Stamped -1
EW2X2472	HINGE-Stamped -2
EW2X2482	LATCH-Door, Double Push
EW1X202	SHELF PIN
EW2X2483	STRIKER PLATE

(OPTIONAL) RACK 1RCK6100

(TOP AND BOTTOM STORAGE)

MISCELLANEOUS

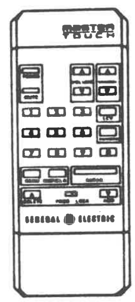
PART NO.	DESCRIPTION
EW2X2481	BASE HINGE-Stamped -1
EW2X2471	BASE HINGE-Stamped -2
EW68X3	CASTER
EW4X471	DIVIDER-Records, Chrome
EW73X50	DOOR-Small Bottom, Glass
EW73X51	DOOR-Large Side, Glass
EW2X2479	DOOR LATCH-Single Push
EW2X2482	DOOR LATCH-Double Push
EW2X2473	HINGE-Stamped -1
EW2X2472	HINGE-Stamped -2
EW2X2483	STRIKER PLATE

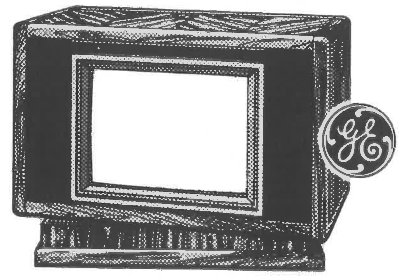
GENERAL ELECTRIC
CONSUMER ELECTRONICS BUSINESS OPERATIONS
PORTSMOUTH, VA 23705

PM CHASSIS
26CP6870D01
26CP6871D01
26CP6872D01

CHASSIS AND ASSEMBLY PARTS LIST

TUNING SYSTEM:	MP3-130
PICTURE TUBE:	★A66ACZ40X
UHF/VHF TUNER:	★EP93X574
AUDIO/VIDEO CIRCUIT BOARD:	EP93X571
LIGHT DEPENDENT RESISTOR BOARD:	EP41X146
POWER SUPPLY CIRCUIT BOARD:	★EP93X609
REMOTE CONTROL RECEIVER MODULE:	EP93X582
REMOTE CONTROL TRANSMITTER:	EP62X204
RF SWITCH CIRCUIT BOARD:	EP93X612
SBA 800 STEREO/BILINGUAL ADAPTOR:	EP90X56
TOP TUNING CIRCUIT BOARD:	EP93X630
VIR CIRCUIT BOARD:	EP93X553
SPEAKER: 8 ohm, 4" (2 Used)	EP95X56
SPEAKER: 8 ohm, 4" (2 Used)	EP95X42
MP3-130 TUNER CONTROL BOARD:	EP93X585
USER'S MANUAL:	29-9663-85

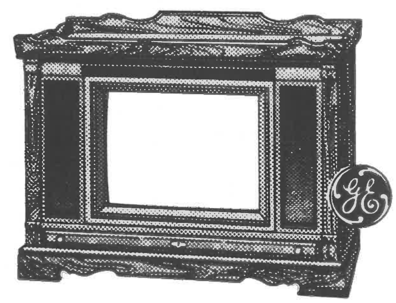




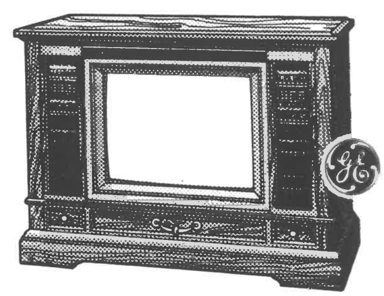
26CP6870

CONTROLS

	PART NO.	DESCRIPTION
R4150	EP49X509	BALANCE-50K ohm, 20%
R4155	EP49X509	BASS-50K ohm, 20%
R4160	EP49X509	TREBLE-50K ohm, 20%
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K ohm, 20%, Detent
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R5010	EP49X458	AUDIO LEVEL-Front, 50K ohm, 20%
R5011		AUDIO LEVEL-Rear, 50K ohm, 20%
R5260	EP49X512	SHARPNESS-1K ohm, 20%
RV15/ RV39	EP49X511	VIR PREFERENCE-5K ohm, 20%
SW01	EP39X150	SWITCH-ON/Off
SW02	EP39X150	SWITCH-Vol Up
SW03	EP39X150	SWITCH-Vol Down
SW04	EP39X150	SWITCH-Channel Up
SW05	EP39X150	SWITCH-Channel Down
SW06	EP39X207	SWITCH-VIR
SW08	EP39X207	SWITCH-Loudness
SW09	EP39X150	SWITCH-Display Screen/Clear
SW11	EP39X150	SWITCH-TV/Video
SW5000	EP39X53	SWITCH-Mono/Stereo (Video I)
SW5001	EP39X53	SWITCH-Mono/Stereo (Video II)
SW5008	EP39X146	SWITCH-Cable Select, Slide Type
SW5300	EP39X134	SWITCH-Internal/External Audio, Slide Type



26CP6871



26CP6872

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

IMPORTANT SAFETY NOTICE

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KNOBS

PART NO.	DESCRIPTION
EP47X60	BALANCE/BASS/TREBLE
EP47X60	COLOR, TINT, BRIGHTNESS, SHARPNESS, & PICTURE
EP47X78	ON/OFF, VOL. UP/DOWN, & CHANNEL UP/DOWN
EP47X79	TV/VIDEO, & DISPLAY SCREEN CLEAR
EP47X61	VIR & LOUDNESS

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP92X137	BRACKET-Antenna Terminal Board, Plastic
EP98X588	CABINET BACK-Hardboard (26CP6870)
EP98X589	CABINET BACK-Hardboard (26CP6871)
EP98X590	CABINET BACK-Hardboard (26CP6872)
EP2X540	CLEAT-Power Cord Storage
ES3X29	CLIP-Antenna Terminal
★EP66X19	CORD-AC Power, Polarized
EP4X530	COVER-Service Information, Black, Plastic
EP8X127	JACK-Phono Type, J5001—J5009, J5015, J5016 & J5102
EP4X427	OVERLAY-Rear Controls, Metal
EP8X119	PLUG-Telephone Type
EP34X70	SOCKET-External Stereo, 8 Pins
EP91X141	TUBE CAP-CRT Cover, Black Plastic

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP2X648	BRACKET-CRT Corner Mounting, Lexan
EP92X148	BRACKET-Top Tuning Board Mounting, Plastic
EP99X554	CABINET FRONT-Black, Plastic
EP91X152	DOOR-Top Tuning, Alum.
EP2X666	DOOR ACTUATOR
EP2X647	DOOR BUMPER
EP3X62	DOOR SPRING
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP54X264	OVERLAY-Top Tuning, Black
EP54X265	OVERLAY-Secondary Controls, Black
EP41X14	PILOT LIGHT-L.E.D., VIR, TY01
EP41X14	PILOT LIGHT-L.E.D., Bilingual, Red, TY02
EP41X14	PILOT LIGHT-L.E.D., Stereo, Red, TY03
EP1X46	RETAINER-Speaker Grille Mounting (12 Used)
EP3X56	SPRING-CRT Ground (Used 2)
EP3X59	SPRING-Top Tuning Door Mounting (2 Used)
EP3X54	SWITCH PAD-Foam

MISCELLANEOUS

PART NO.	DESCRIPTION
EP68X7	CASTERS-W/Socket
EP4X180	KEYWAY-Decorative
EP4X85	PULL-Decorative (Order 2) (25CP6871)

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GENERAL ELECTRIC

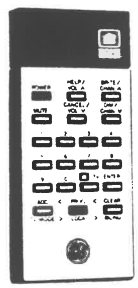
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PORTSMOUTH, VA 23705

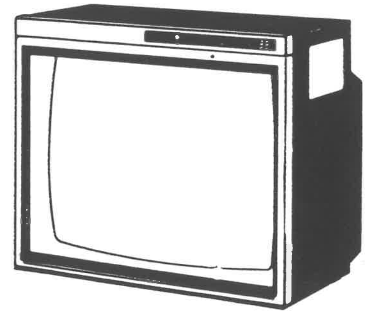
PM CHASSIS
25PM5882EC01

SERVICE INFORMATION — **PC CHASSIS MODEL PAGE**

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	25" PM-C
TUNING SYSTEM:	MP1-130
PICTURE TUBE:	★A63ABZ40X
UHF/VHF TUNER:	★EP93X502
AUDIO/VIDEO CIRCUIT BOARD:	EP93X628
LIGHT D EPENDENT RESISTOR BOARD:	EP41X146
POWER SUPPLY CIRCUIT BOARD:	★EP93X515
RELAY CIRCUIT BOARD:	EP93X540
REMOTE CONTROL RECEIVER MODULE:	EP93X480
REMOTE CONTROL TRANSMITTER:	EP62X186
RF SWITCH ASSEMBLY:	EP39X215
STEREO AMPLIFIER CIRCUIT BOARD:	EP93X512
TOP TUNING CIRCUIT BOARD:	EP93X517
VIR MODULE:	EP93X462
SPEAKER: 8 ohm, 4" (2 Used)	EP95X40
MP1-130 TUNER CONTROL BOARD:	EP93X541
X10 HOMEMINDER REAR ATTACHMENT:	EP90X55
USER'S MANUAL:	29-9237-84





25PM5882

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4150	EP49X492	BALANCE-15K ohm, 20%
R4155	EP49X492	BASS-15K ohm, 20%
R4160	EP49X492	TREBLE-15K ohm, 20%
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K ohm, 20%, Detent
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R5010	EP49X458	AUDIO LEVEL-50K ohm, 20%
R5011	EP49X458	AUDIO LEVEL-50K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%
S5000	EP39X53	SWITCH-Mono/Stereo (Video I), Slide Type
SW5008	EP39X146	SWITCH-Cable Select, Slide Type
SW5300	EP39X134	SWITCH-On/Off External Amplifiers, Slide Type
TSW4001	EP39X206	SWITCH-On/Off, Push
TSW4002	EP39X206	SWITCH-Vol. Up, Push
TSW4003	EP39X206	SWITCH-Vol. Down, Push
TSW4004	EP39X206	SWITCH-Channel Up, Push
TSW4005	EP39X206	SWITCH-Channel Down, Push
TSW4006	EP39X206	SWITCH-T.V., Push
TSW4011	EP39X207	SWITCH-Loudness/Defeat
TSW4012	EP39X207	SWITCH-Mono/Stereo
TSW4014	EP39X207	SWITCH-Manual/VIR

KNOBS

PART NO.	DESCRIPTION
EP47X66	COLOR, TINT, BRIGHTNESS, & PICTURE
EP47X62	MODE SWITCH
EP47X66	TREBLE, BALANCE, & BASS
EP47X61	STEREO, LOUDNESS & VIR
EP47X59	ON/OFF, VOL. UP/DOWN, CHANNEL UP/DOWN

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP37X80	AMP/SPEAKER JACK ASSEMBLY
EP92X137	BRACKET-Antenna Terminal Board, Plastic
EP98X552	CABINET BACK-Black, Plastic
EP2X540	CLEAT-Power Cord Storage
ES3X29	CLIP-Antenna Terminal
★EP66X19	CORD-AC Power, Polarized
EP4X175	COVER-Service Information, Black, Plastic
EP8X128	JACK-Headphones, J4000
EP8X127	JACK-Phono Type, J5015 & J5016
EP8X136	JACK-Phono Type, J5200 & J5201
EP4X427	OVERLAY-Rear Controls, Metal
EP8X137	PLUG-Telephone Type
EP34X71	SOCKET-8 Pins, Din, J01

(Cont.)

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

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CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP2X594	BRACKET-CRT Corner Mounting, Metal
EP92X121	BRACKET-Tuner Control Mounting, Plastic
EP99X481	CABINET FRONT-Black, Plastic
EP97X116	CABINET WRAP-Top & Sides, Metal
EP41X151	CHANNEL NUMBER READOUT DISPLAY-Green
EP4X467	DOOR-Top Tuning Controls, Plastic
EP2X623	DOOR ARM ASSEMBLY
EP4X468	DOOR BUMPER
EP2X593	DOOR HINGES
EP4X475	DOOR PIN
EP89X530	GRILLE-Speaker
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP4X513	OVERLAY-Top Tuning Controls, Black, Plastic
EP54X249	OVERLAY-Headphone Jack
EP4X512	OVERLAY-Secondary Controls, Black, Plastic
EP41X14	PILOT LIGHT-Stereo Indicator, Red, TY4001
EP41X14	PILOT LIGHT-Bilingual, Red, TY4002
EP41X14	PILOT LIGHT-VIR, Red, TY4003, TY4005
EP3X58	RETAINER-Speaker Mounting (8 Used)
EP2X615	RETAINER-For Speaker Grille (12 Used)
EP3X56	SPRING-CRT Ground (2 Used)
EP3X54	SWITCH PAD-Foam
EP94X7	WINDOW-CRT Cover, Glass
EP2X592	WINDOW-Channel Readout, Plastic
EP2X600	WINDOW SLOT BARRIER

MISCELLANEOUS

PART NO.	DESCRIPTION
EP91X106	CABINET BOTTOM-Black, Plastic

(OPTIONAL) STORAGE CABINET (RCK880)

(TOP AND BOTTOM STORAGE)

MISCELLANEOUS

PART NO.	DESCRIPTION
EP68X11	CASTER
EP73X29	DOOR-Glass
EP2X602	HINGE-Glass Doors
EP2X605	LATCH
EP2X608	SHELVE RETAINER
EP2X603	STRIKER PLATE

GENERAL ELECTRIC

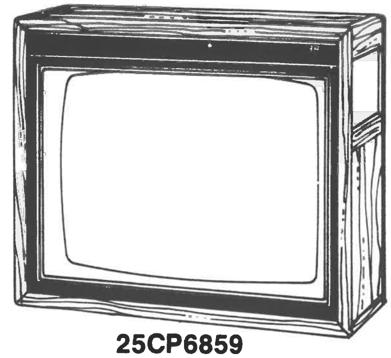
CONSUMER ELECTRONICS BUSINESS OPERATIONS
PORTSMOUTH, VA 23705

PM CHASSIS
25CP6859D01

SERVICE INFORMATION — **PC CHASSIS MODEL PAGE**

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	25" PM-D
TUNING SYSTEM:	MP3-130
PICTURE TUBE:	★A63ABZ40X
UHF/VHF TUNER:	★EP93X574
AUDIO CIRCUIT BOARD:	EP93X627
LIGHT DEPENDENT RESISTOR BOARD:	EP41X146
JACK PACK -1 SWITCH CIRCUIT BD:	EP93X577
POWER SUPPLY CIRCUIT BOARD:	★EP93X607
RF SWITCH CIRCUIT BOARD:	EP93X612
REMOTE CONTROL RECEIVER MODULE:	EP93X598
REMOTE CONTROL TRANSMITTER:	EP62X204
TOP TUNING CIRCUIT BOARD:	EP93X597
VIR MODULE:	EP93X462
SPEAKER: 8 ohm, 4"	EP95X50
MP3-130 TUNER CONTROL BOARD:	EP93X587
USER'S MANUAL:	29-9659-85



25CP6859

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K ohm, 20%
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R4400	EP49X491	TONE CONTROL-10K ohm, 20%
R5010	EP49X488	AUDIO LEVEL-50K ohm, 20%
R5011		AUDIO LEVEL-50K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%
SW01	EP39X150	SWITCH-ON/Off
SW02	EP39X150	SWITCH-Vol Up
SW03	EP39X150	SWITCH-Vol Down
SW04	EP39X150	SWITCH-Channel Up
SW05	EP39X150	SWITCH-Channel Down
SW06	EP39X207	SWITCH-VIR
SW10	EP39X150	SWITCH-Display Screen/Clear
SW11	EP39X150	SWITCH-TV/Video
S4010	EP39X213	SWITCH-Internal/External Audio, Rotary
SW5000	EP39X25	SWITCH-Mono/Stereo (Video I)
SW5008	EP39X146	SWITCH-Cable Select, Slide Type

KNOBS

PART NO.	DESCRIPTION
EP47X78	ON/OFF, VOL UP/DOWN, & CHANNEL UP/DOWN
EP47X79	TV/VIDEO & DISPLAY ON SCREEN/CLEAR
EP47X61	VIR
EP47X60	COLOR, TINT, BRIGHTNESS, & PICTURE
EP47X60	TONE & INTERNAL/EXTERNAL AUDIO

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP92X137	BRACKET-Antenna Terminal Board, Plastic
EP98X584	CABINET BACK-Black, Plastic
EP2X540	CLEAT-Power Cord Storage
ES3X29	CLIP-Antenna Terminal
★EP66X19	CORD-AC Power, Polarized
EP4X175	COVER-Service Information, Black, Plastic
EP8X127	JACK-Phono, J5001—J5003, J5005—J5007, & J5009
EP4X557	OVERLAY-Rear Controls, Metal
EP2X635	RETAINER-Push Fastener (2 Used)
EP1X33	RIVET-Plastic
EP34X70	SOCKET-8 Pin Din

(Cont.)

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

IMPORTANT SAFETY NOTICE

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CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP2X594	BRACKET-CRT Corner Mounting, Lexan
EP99X553	CABINET FRONT-Black, Plastic
EP91X149	DOOR-Top Tuning, Alum.
EP2X619	DOOR ARM ASSEMBLY
EP2X596	DOOR CATCH
EP2X644	DOOR LATCH ASSEMBLY
EP4X474	DOOR LOCK
EP2X593	DOOR HINGE PIN
EP2X656	DOOR PIN
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP54X263	OVERLAY-Top Tuning, Black, Lexan
EP4X500	OVERLAY-Secondary Controls, Black, Vinyl
EP41X14	PILOT LIGHT-L.E.D.-VIR, TY01
EP41X14	PILOT LIGHT-L.E.D.-Bilingual, Red, TY02
EP41X14	PILOT LIGHT-L.E.D.-Stereo, Red, TY03
EP3X58	RETAINER-Speaker Mounting, Fastener (8 Used)
EP2X659	RETAINER-Palnut, Fastener
EP3X56	SPRING-CRT Ground
EP3X54	SWITCH PAD-Foam
EP2X658	WINDOW PLUG-Plastic

GENERAL ELECTRIC

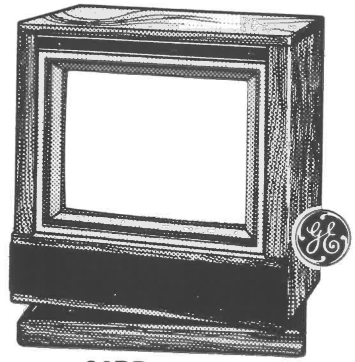
CONSUMER ELECTRONICS BUSINESS OPERATIONS
PORTSMOUTH, VA 23705

PM CHASSIS
26PP5863KC01
26PP5864LC01
26PP5865KC01

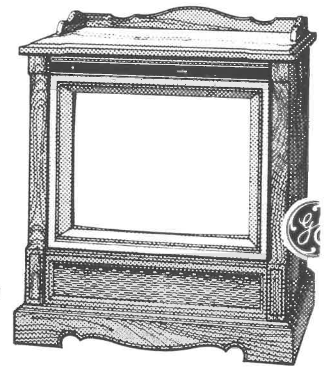
SERVICE INFORMATION — PC CHASSIS MODEL PAGE

CHASSIS AND ASSEMBLY PARTS LIST

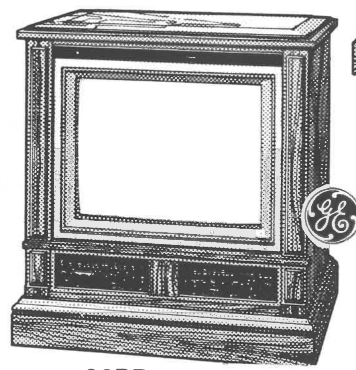
CHASSIS TYPE:	26" PM-C
TUNING SYSTEM:	MP1-130
PICTURE TUBE:	★A66ACZ40X
UHF/VHF TUNER:	★EP93X502
AUDIO/VIDEO CIRCUIT BOARD:	EP93X522
LIGHT D EPENDENT RESISTOR BOARD:	EP41X146
POWER SUPPLY CIRCUIT BOARD:	★EP93X515
RELAY CIRCUIT BOARD:	EP93X540
RF SWITCH ASSEMBLY:	EP39X215
REMOTE CONTROL RECEIVER MODULE:	EP93X480
REMOTE CONTROL TRANSMITTER:	EP62X196
SBA 800 STEREO/BILINGUAL ADAPTOR:	EP90X56
STEREO AMPLIFIER CIRCUIT BOARD:	EP93X512
TOP TUNING CIRCUIT BOARD:	EP93X517
VIR MODULE:	EP93X553
SPEAKER: 8 ohm, 2" (2 Used)	EP95X41
SPEAKER: 8 ohm, 4" (2 Used)	EP95X42
MP1-130 TUNER CONTROL BOARD:	EP93X541



26PP5863K



26PP5864L



26PP5865K

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4150	EP49X492	BALANCE-15K ohm, 20%, Detent
R4155	EP49X492	BASS-15K ohm, 20%, Detent
R4160	EP49X492	TREBLE-15K ohm, 20%, Detent
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K, 20%, Detent
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R5010	EP49X458	AUDIO LEVEL-50K ohm, 20% (Front)
R5011		AUDIO LEVEL-50K ohm, 20% (Rear)
R5260	EP49X395	SHARPNESS-1K ohm, 20%
TSW4001	EP39X206	SWITCH-On/Off, Push
TSW4002	EP39X206	SWITCH-Vol. Up, Push
TSW4003	EP39X206	SWITCH-Vol. Down, Push
TSW4004	EP39X206	SWITCH-Channel Up, Push
TSW4005	EP39X206	SWITCH-Channel Down, Push
TSW4006	EP39X206	SWITCH-T.V., Push
TSW4011	EP39X207	SWITCH-Loudness/Defeat
TSW4012	EP39X207	SWITCH-Mono/Stereo
TSW4014	EP39X207	SWITCH-Manual/VIR
S5000	EP39X53	SWITCH-Mono/Stereo (Video I), Slide Type
S5001	EP39X53	SWITCH-Mono/Stereo (Video II), Slide Type
SW5008	EP39X146	SWITCH-Cable Select, Slide Type
S5300	EP39X134	SWITCH-On/Off External Amplifier

KNOBS

PART NO.	DESCRIPTION
EP47X60	COLOR, TINT, BRIGHTNESS, & PICTURE
EP47X60	BALANCE/TREBLE/BASS/PREFERENCE CONTROLS
EP47X61	LOUDNESS, STEREO, VIR
EP47X59	ON/OFF, UP/DOWN VOL., & CHANNEL UP/DOWN
EP47X62	TV/MODE

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP98X561	CABINET BACK-Hardboard (26PP5863K)
EP98X562	CABINET BACK-Hardboard (26PP5864L)
EP98X563	CABINET BACK-Hardboard (26PP5865K)
EP2X540	CLEAT-Power Cord Storage
ES3X29	CLIP-Antenna Terminal

BEFORE APPLYING POWER TO THIS RECEIVER, READ THE SAFETY INFORMATION PAGE.

IMPORTANT SAFETY NOTICE

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CABINET BACK PARTS (cont.)

★EP66X19	CORD-AC Power, Polarized
EP4X530	COVER-Service Information, Black, Plastic
EP8X127	JACK-Phono Type, J5001—J5009, J5015 & J5016
EP8X119	JACK-Phono Type, J5200 & J5201
EP4X427	OVERLAY-Rear Controls, Alum.
EP91X74	TUBE CAP-CRT Cover, Black Plastic

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP2X648	BRACKET-CRT Corner Mounting, Top & Bottom, Lexan
EP92X120	BRACKET-UHF/VHF Tuner & Audio Mounting, Plastic
EP92X138	BRACKET-Top Tuning Control Circuit Board Mounting, Plastic
EP99X529	CABINET FRONT-Black, Plastic
EP41X151	CHANNEL NUMBER READOUT DISPLAY-Green
EP97X117	DOOR-Top Tuning Controls Cover, Alum.
EP2X647	DOOR BUMPER-3 Used
EP3X59	DOOR SPRING-2 Used
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP4X532	OVERLAY-Primary Controls, Black, Lexan
EP4X531	OVERLAY-Secondary Controls, Black, Lexan
EP41X14	PILOT LIGHT-Stereo Indicator, Red, TY4001
EP41X14	PILOT LIGHT-Bilingual, Red, TY4002
EP41X14	PILOT LIGHT-VIR, Red, TY4003, TY4005
EP1X46	RETAINER-Fastner, Speaker To Grille (12 Used)
EP3X56	SPRING-CRT Ground
EP3X54	SWITCH PAD-Foam

MISCELLANEOUS

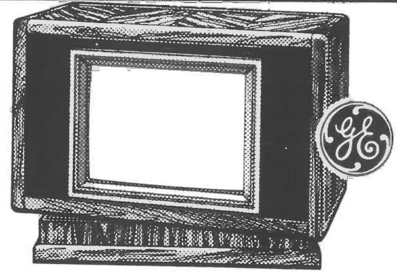
PART NO.	DESCRIPTION
EP68X7	CASTER-W/Socket

PM CHASSIS
26PP5870KC01
26PP5871LC01
26PP5872KC01

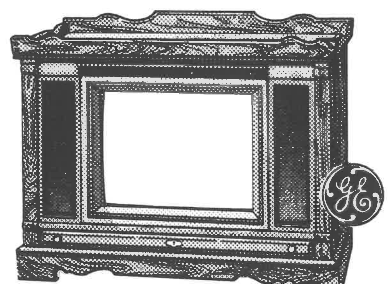
SERVICE INFORMATION | **PC CHASSIS MODEL PAGE**

CHASSIS AND ASSEMBLY PARTS LIST

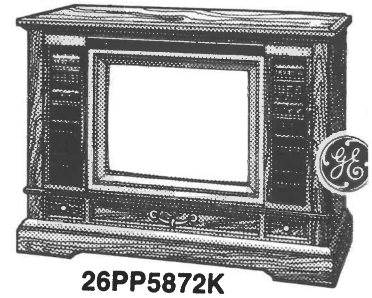
CHASSIS TYPE:	26" PM-C
TUNING SYSTEM:	MP1-130
PICTURE TUBE:	★A66ACZ40X
UHF/VHF TUNER:	★EP93X502
AUDIO/VIDEO CIRCUIT BOARD:	EP93X522
LIGHT DEPENDENT RESISTOR BOARD:	EP41X146
POWER SUPPLY CIRCUIT BOARD:	★EP93X515
RELAY CIRCUIT BOARD:	EP93X540
RF SWITCH ASSEMBLY:	EP39X215
REMOTE CONTROL RECEIVER MODULE:	EP93X480
REMOTE CONTROL TRANSMITTER:	EP62X196
SBA 800 STEREO/BILINGUAL ADAPTOR:	EP90X56
STEREO AMPLIFIER CIRCUIT BOARD:	EP93X512
TOP TUNING CIRCUIT BOARD:	EP93X517
VIR MODULE:	EP93X553
SPEAKER: 8 ohm, 2" (2 Used)	EP95X41
SPEAKER: 8 ohm, 4" (2 Used)	EP95X42
MP1-130 TUNER CONTROL BOARD:	EP93X541



26PP5870K



26PP5871L



26PP5872K

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4150	EP49X492	BALANCE-15K ohm, 20%, Detent
R4155	EP49X492	BASS-15K ohm, 20%, Detent
R4160	EP49X492	TREBLE-15K ohm, 20%, Detent
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K, 20%, Detent
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R5010	EP49X458	AUDIO LEVEL-50K ohm, 20% (Front)
R5011		AUDIO LEVEL-50K ohm, 20% (Rear)
R5260	EP49X395	SHARPNESS-1K ohm, 20%
TSW4001	EP39X206	SWITCH-On/Off, Push
TSW4002	EP39X206	SWITCH-Vol. Up, Push
TSW4003	EP39X206	SWITCH-Vol. Down, Push
TSW4004	EP39X206	SWITCH-Channel Up, Push
TSW4005	EP39X206	SWITCH-Channel Down, Push
TSW4006	EP39X206	SWITCH-T.V., Push
TSW4011	EP39X207	SWITCH-Loudness/Defeat
TSW4012	EP39X207	SWITCH-Mono/Stereo
TSW4014	EP39X207	SWITCH-Manual/VIR
S5000	EP39X53	SWITCH-Mono/Stereo (Video I), Slide Type
S5001	EP39X53	SWITCH-Mono/Stereo (Video II), Slide Type
SW5008	EP39X146	SWITCH-Cable Select, Slide Type
S5300	EP39X134	SWITCH-On/Off External Amplifier

KNOBS

PART NO.	DESCRIPTION
EP47X60	COLOR, TINT, BRIGHTNESS, & PICTURE
EP47X60	BALANCE/TREBLE/BASS/PREFERENCE CONTROLS
EP47X61	LOUDNESS, STEREO, VIR
EP47X59	ON/OFF, UP/DOWN VOL., & CHANNEL UP/DOWN
EP47X62	TV/MODE

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP98X564	CABINET BACK-Hardboard (26PP5870K)
EP98X566	CABINET BACK-Hardboard (26PP5871L)
EP98X565	CABINET BACK-Hardboard (26PP5872K)
EP2X540	CLEAT-Power Cord Storage
ES3X29	CLIP-Antenna Terminal
★EP66X19	CORD-AC Power, Polarized
EP4X530	COVER-Service Information, Black, Plastic
EP8X127	JACK-Phono Type, J5001—J5009, J5015 & J5016
EP8X119	JACK-Phono Type, J5200 & J5201
EP4X427	OVERLAY-Rear Controls, Alum.
EP91X74	TUBE CAP-CRT Cover, Black Plastic

(Cont.)

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CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP2X648	BRACKET-CRT Corner Mounting, Top & Bottom, Lexan
EP92X120	BRACKET-UHF/VHF Tuner & Audio Mounting, Plastic
EP92X138	BRACKET-Top Tuning Control Circuit Board Mounting, Plastic
EP99X529	CABINET FRONT-Black, Plastic
EP41X151	CHANNEL NUMBER READOUT DISPLAY-Green
EP97X117	DOOR-Top Tuning Controls Cover, Alum.
EP2X647	DOOR BUMPER-3 Used
EP3X59	DOOR SPRING-2 Used
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP4X532	OVERLAY-Primary Controls, Black, Lexan
EP4X531	OVERLAY-Secondary Controls, Black, Lexan
EP41X14	PILOT LIGHT-Stereo Indicator, Red, TY4001
EP41X14	PILOT LIGHT-Bilingual, Red, TY4002
EP41X14	PILOT LIGHT-VIR, Red, TY4003, TY4005
EP1X46	RETAINER-Fastner, Speaker To Grille (12 Used)
EP3X56	SPRING-CRT Ground
EP3X54	SWITCH PAD-Foam

MISCELLANEOUS

PART NO.	DESCRIPTION
EP68X7	CASTER-W/Socket

GENERAL ELECTRIC

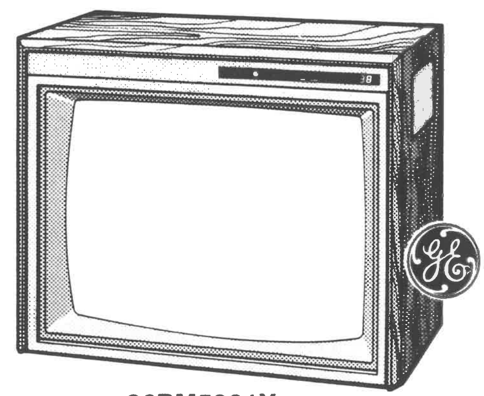
CONSUMER ELECTRONICS BUSINESS OPERATIONS
PORTSMOUTH, VA 23705

PM CHASSIS
26PM5881XC01

SERVICE INFORMATION — PM CHASSIS MODEL PAGE

CHASSIS AND ASSEMBLY PARTS LIST

CHASSIS TYPE:	26" PM-C
TUNING SYSTEM:	MP1-130
PICTURE TUBE:	★A66ACZ40X
UHF/VHF TUNER:	★EP93X574
AUDIO/VIDEO CIRCUIT BOARD:	EP93X522
LIGHT DEPENDENT RESISTOR BOARD:	EP41X146
POWER SUPPLY CIRCUIT BOARD:	★EP93X515
REMOTE CONTROL RECEIVER MODULE:	EP93X480
REMOTE CONTROL TRANSMITTER:	EP62X196
RF SWITCH ASSEMBLY:	EP39X215
SBA 800 STEREO/BILINGUAL ADAPTOR:	EP90X56
STEREO AMPLIFIER CIRCUIT BOARD:	EP93X512
TOP TUNING CIRCUIT BOARD:	EP93X517
VIR MODULE:	EP93X553
SPEAKER: 8 ohm, 4"	EP95X40
MP1-130 TUNER CONTROL BOARD:	EP93X541



26PM5881X

CONTROLS

REF. NO.	PART NO.	DESCRIPTION
R4150	EP49X492	BALANCE-15K ohm, 20%, Detent
R4155	EP49X492	BASS-15K ohm, 20%, Detent
R4160	EP49X492	TREBLE-15K ohm, 20%, Detent
R4220	EP49X491	BRIGHTNESS-10K ohm, 20%
R4260	EP49X495	PICTURE-10K ohm, 20%, Detent
R4300	EP49X491	TINT-10K ohm, 20%
R4301	EP49X491	COLOR-10K ohm, 20%
R5010	EP49X458	AUDIO LEVEL-Front, 50K ohm, 20%
R5011		AUDIO LEVEL-Rear, 50K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%
RV15/RV39	EP49X511	VIR PREFERENCE-5K ohm, 20%
TSW4001	EP39X206	SWITCH-On/Off, Push
TSW4002	EP39X206	SWITCH-Vol. Up, Push
TSW4003	EP39X206	SWITCH-Vol. Down, Push
TSW4004	EP39X206	SWITCH-Channel Up, Push
TSW4005	EP39X206	SWITCH-Channel Down, Push
TSW4006	EP39X206	SWITCH-T.V., Push
TSW4011	EP39X207	SWITCH-Loudness/Defeat
TSW4012	EP39X207	SWITCH-Mono/Stereo
TSW4014	EP39X207	SWITCH-Manual/VIR
SW5000	EP39X53	SWITCH-Mono/Stereo (Video I), Slide Type
SW5001	EP39X53	SWITCH-Mono/Stereo (Video II), Slide Type
SW5008	EP39X146	SWITCH-Cable Select, Slide Type
SW5300	EP39X134	SWITCH-Internal/External Audio, Slide Type

KNOBS

PART NO.	DESCRIPTION
EP47X60	BASS/BALANCE/TREBLE & PREFERENCE CONTROLS
EP47X60	COLOR, TINT, BRIGHTNESS, & PICTUR
EP47X59	ON/OFF, VOL. UP/DOWN & CHANNEL UP/DOWN
EP47X61	STEREO, VIR & LOUDNESS
EP47X62	TV/MODE

CABINET BACK PARTS

PART NO.	DESCRIPTION
EP90X40	ADAPTOR-300 ohms In, to 75 ohms Out
EP37X80	AMP/SPEAKER TERMINAL JACK ASSEMBLY
EP92X137	BRACKET-Antenna Terminal Board Plastic
EP92X121	BRACKET-Rear Modules Mounting Plastic
EP98X591	CABINET BACK-Black, Plastic
EP2X540	CLEAT-Power Cord Storage
ES3X29	CLIP-Antenna Terminal
★EP66X19	CORD-AC Power, Polarized
EP4X530	COVER-Service Information, Black Plastic
EP8X128	JACK-Headphone, J4000
EP8X127	JACK-Stereo IF Input, Phono Type J5[illegible]2
EP8X127	JACK-External Amplifiers, phono Type J5015 & J5016

Cont.)

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CABINET BACK PARTS (cont.)

EP8X136	JACK-External Speakers, Telephone Type J5200 & J5201
EP8X137	PLUG-External Speaker Connecter (2 Packed W/Unit)
EP34X70	SOCKET-External Stereo, 8 Pins

CABINET FRONT PARTS

PART NO.	DESCRIPTION
EP2X648	BRACKET-CRT Corner Mounting, Lexan
EP2X600	BRACKET-CRT Glass Window Holder, Plastic
EP92X138	BRACKET-Top Tuning Board Mounting, Plastic
EP99X556	CABINET FRONT-Black, Plastic
EP97X119	CABINET WRAP-Top & Sides
EP41X151	CHANNEL NUMBER READOUT DISPLAY-Green
EP91X153	DOOR-Controls Cover, Alum.
EP2X647	DOOR BUMPER
EP3X59	DOOR SPRING-2 Used
EP89X530	GRILLE-Speaker
EP2X157	LIGHT PIPE-Light Sensor, Plastic
EP4X532	OVERLAY-Primary Controls
EP4X531	OVERLAY-Secondary Controls
EP54X249	OVERLAY-Headphone Jack
EP41X14	PILOT LIGHT-Stereo Indicator, Red, TY4001
EP41X14	PILOT LIGHT-Bilingual, Red, TY4002
EP41X14	PILOT LIGHT-VIR, Red, TY4003, TY4005
EP2X615	RETAINER-Grille Mounting (12 Used)
EP3X58	RETAINER-Speaker Mounting, Fastener (8 Used)
EP3X56	SPRING-CRT Ground (2 Used)
EP94X8	WINDOW-Glass CRT Cover

MISCELLANEOUS

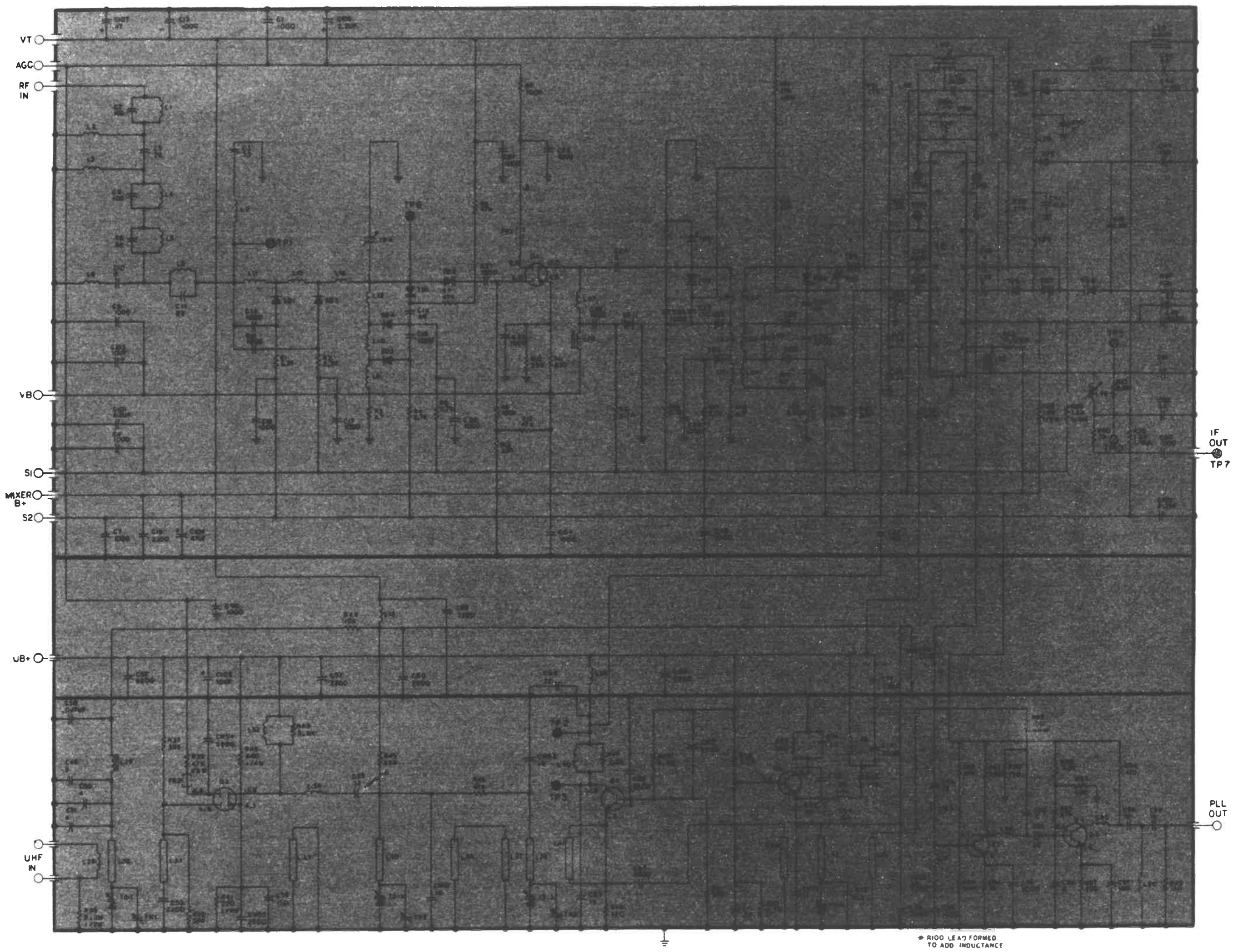
PART NO.	DESCRIPTION
EP91X151	CABINET BOTTOM-Black, Plastic

GENERAL ELECTRIC

TELEVISION

SERVICE INFORMATION

TELEVISION
PM CHASSIS
UHF/VHF TUNER
EP93X502



NOTES:

1. ALL CAPACITANCE VALUES ARE IN PICOFARADS AND ALL CAPACITORS ARE CHIP COMPONENTS UNLESS OTHERWISE SPECIFIED.
2. CW—WEDGE CAP.
3. ALL RESISTANCE VALUES ARE IN OHMS, ⅛W, AND RESISTORS ARE CHIP COMPONENTS UNLESS OTHERWISE SPECIFIED.
   K—1,000 M—1,000,000
   RESISTORS MARKED ⅛W, ¼W, AND ½W ARE AXIAL RESISTORS.
4. VIDEO IF—45.75MHZ
   AUDIO IF—41.25MHZ
5. RECEIVING CHANNELS:
   2 — 6
   A-2 — 13
   J — WW
   14 — 83
6. INPUT IMPEDANCE:
   VHF 75 OHMS
   UHF 300 OHMS
7. OUTPUT IMPEDANCE:
   75 OHMS
8. FOR ALL VOLTAGE MEASUREMENTS USE A HIGH IMPEDANCE VOLTMETER (10M OHMS OR MORE).
9.

RECEIVING BAND	BAND I	BAND II	BAND III	BAND IV
SW 1 +/- 10%	-15V	-15V	+9V	-15V
SW 2 +/- 10%	-15V	+9V	+9V	+9V
VHF RF & OSC B+ +/- 10%	+12V	+12V	+12V	0V
MIXER B+ +/- 10%	+12V	+12V	+12V	+12V
UHF B+ +/- 10%	0V	0V	0V	+12V
AGC MAX GAIN	8.8V	8.8V	8.8V	8.8V
TUNING VOLTAGE	.5-29	.5-29	.5-29	.5-29

NOTE: NO SERVICEABLE PARTS. ORDER A COMPLETE REPLACEMENT TUNER FOR REPAIR.

INDEX

Section 3 Index

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IMPORTANT SAFETY INFORMATION

The PM chassis is a "hot" and "cold" chassis that uses a two-ground system. The Power Supply Module is elevated 70VAC above earth ground and is always "hot" when the AC cord is plugged in. The rest of the chassis is "cold" and is isolated from the Power Supply Module by Switching Transformer (T901). Never connect the Power Supply Module ground to any other ground in the receiver and always use an isolation transformer when servicing.

Shatter-proof safety glasses should always be worn when working around an exposed picture tube. Before handling the tube, thoroughly discharge the second anode to the outer aquadag coating of the picture tube. Replacement picture tubes must have integral X-Ray and implosion protection. Replace only with tube of same type number.

CAUTION: X-RAYS

As a precaution against emission of X-Rays in excess of Federal Standards, never apply power to the receiver until the following conditions have been verified.

1. **All factory-installed shields are in place.**
2. **The picture tube is a factory specified type only.**
3. **The line input voltage does not exceed 130 volts AC.**
4. **The high voltage does not exceed 30.5KV (19PM) and 32.3KV (25PM) with brightness and contrast controls at minimum (minimum illumination on picture tube screen) at 120VAC.**

Normal high voltage is 29.0KV (19PM) and 30.5KV (25PM) at zero beam current (black picture) with 120VAC line input. High voltage is not adjustable.

"CAUTION - HIGH VOLTAGE SHUT DOWN MODULE REPLACEMENT"
To provide proper x-radiation protection it is necessary that all components in the HVSD be matched and tested as a complete unit. No individual component can be safely repaired or replaced. Therefore, if a malfunction is suspected, replace only with entire unit, replacement part number EP62X167.

128 VOLT B+ ADJUSTMENT
The setting of the +128 volt adjustment (R912) directly affects high voltage. See detailed instructions on page (PM) 3-5 before adjusting B+.

AFTER SERVICING THE RECEIVER, PERFORM THE FOLLOWING SAFETY CHECK:

BEFORE INSTALLING THE CABINET BACK

INSPECT LEAD DRESS:

1. No lead should be against a power resistor (2 watts or more).
2. High voltage connections must have no sharp points.
3. The insulation on antenna leads should not be damaged. The leads should not be dressed close to any high voltage point or AC line connection.
4. The AC wiring should be inspected for damaged insulation, frayed wires, pinched leads, or cold solder connections.
5. Inspect AC line cord for broken or damaged insulation.

MAKE RESISTANCE CHECK

1. Check for DC continuity (0 ohms) from the narrow blade of the power cord to the input side of the Bridge Rectifier on the Power Supply Board.

AFTER INSTALLING THE CABINET BACK

1. Connect the VHF antenna to the VHF antenna terminals.
2. Do not plug the receiver into a power outlet. Connect both blades of the power plug together and connect a jumper wire from the Sweep Board ground to the side of MOV901 that connects to T901.
3. Measure between the shorted power plug and the following point. Readings should be as indicated:

TEST POINT	MIN. OHMS	MAX. OHMS
UHF Antenna Terminals	600K	5.2 MEGS
VHF Antenna Terminals	600K	5.2 MEGS
Cabinet Back Screws	OPEN CIRCUIT	
All Metal Controls or Channel Selector Shafts (with Knobs Removed)	OPEN CIRCUIT	
All Non-Removable Metalic Knobs, Push Buttons, Earphone Jacks, etc.	OPEN CIRCUIT	
Metal Escutcheons and Overlays	OPEN CIRCUIT	

IF ANY READING IS NOT WITHIN THE SPECIFIED LIMITS, THE CAUSE SHOULD BE IDENTIFIED AND CORRECTED BEFORE OPERATING THE RECEIVER.

ELECTRICAL SPECIFICATIONS

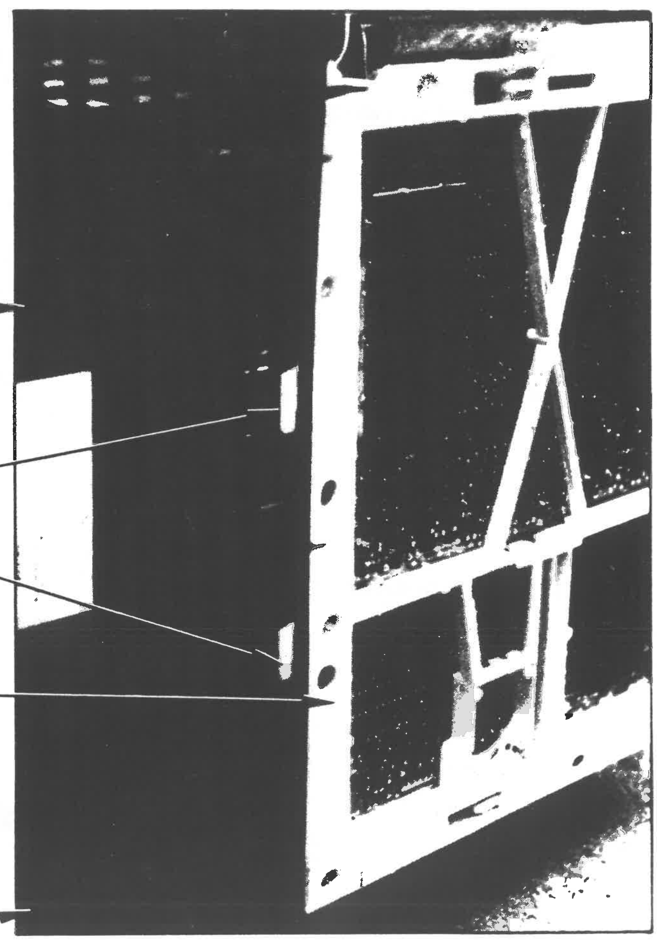
Power Input Rating:	Frequency	60 cycles
	Voltage	108-128 volts
Operational Frequencies:	Picture I-F Carrier	45.75MHz
	Sound I-F Carrier	41.25MHz
	Color Sub-Carrier (Nominal)	42.17MHz
	Intercarrier Sound Take-Off	4.5MHz
Audio Power Output:	Average (25KHz Dev.)	2 Watts
	(16 Ohm Load)	@10% Distortion
Audio Power Output: (Hi-Tech)	@1KHz	10 Watts (Min.)/Channel
	Distortion @30Hz & 20KHz	1.0% (Max.)

DISASSEMBLY

19PM CHASSIS SERVICE POSITION

The following procedure should be used when putting the 19PM Chassis into its Service Position:
CAUTION*Unplug receiver before proceeding!**

1. Disconnect Antenna leads.
2. Remove cabinet back screws.
3. Remove cabinet back.
4. Release the Main Circuit board by pressing down on the two "quick release" locking clips located at the bottom rear of the cabinet.
5. Slide the Main Circuit board out of the cabinet.
6. Place the receiver on its right side (looking from rear of set).
7. Insert the Main Circuit board into the two "slots" (see Pictorial below) at the bottom of the cabinet, and lock into Service Position.



19PM CHASSIS SERVICE POSITION

DISASSEMBLY

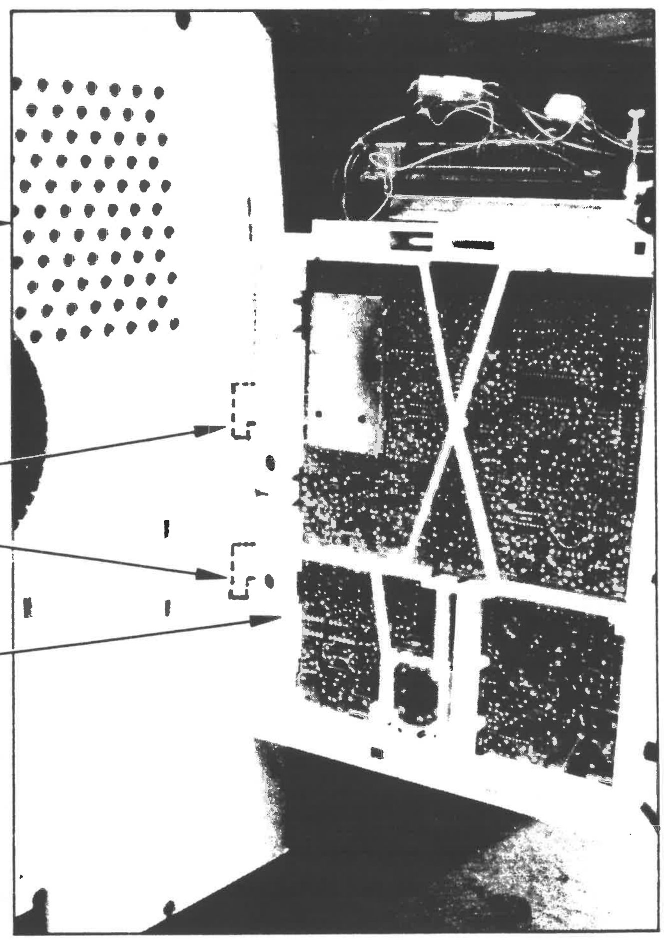
CONTINUED

25PM CHASSIS SERVICE POSITION

The following procedure should be used when putting the 25PM Chassis into its Service Position:
CAUTION*Unplug receiver before proceeding!**

1. Remove cabinet back and re-mount it to the left of the cabinet as shown below.
2. Remove the two chassis mounting screws (located on each side, near cabinet rear).
3. Unplug the ground lead connected to the CRT mounting strap.
4. Remove 2nd anode lead from wire ties.
5. Turn chassis vertically (copper side of PCB facing left) and insert chassis in the slots provided on the cabinet back as shown below.

Once in the service position, the technician has access to both the component side and copper side of the PCB board.



25PM CHASSIS SERVICE POSITION

SERVICE ADJUSTMENTS

GENERAL INFORMATION

The receivers covered by this service information are factory adjusted before shipment and generally require only slight adjustment, if any.

After applying power to the receiver, adjust the controls for a black and white picture. Observe the picture for good black and white reproduction over the entire screen area. No objectionable color shading should be evident. If color shading is evident, degauss, purify, and converge the receiver.

If adjustment is required, allow at least 20 minutes of warm up time prior to final adjustment.

IMPORTANT — Note that the on/off relay RY900 is located in the secondary of T901. Therefore, there is always B+ voltage present on the power supply module whenever the receiver's power cord is plugged into an 115VAC source.

DEMAGNETIZING

The receivers are equipped with an automatic degaussing circuit which demagnetizes the picture tube each time the receiver is turned on after having been off for at least 5 minutes.

CIRCUIT PROTECTION

The entire receiver is protected by a 4 Amp fast-blow fuse (F901) connected in the AC power line. All 19" and 25" receivers with 2 watt amplifiers use a 2.5 amp fast blow fuse on the power supply module. All 19" and 25" receivers with 5 or 10 watt dual channel amplifiers use a 3 amp fast blow fuse. To gain access to these fuses, remove one hex head screw at the front edge of the plastic shield that covers the top of the power supply module. The +15 volt line for "standby operation" has R928 a 1 ohm, 1 watt resistor connected to the secondary of T901 located on the sweep board. This resistor acts as a fuse for this circuit. R901 and R902 are connected in series to the bridge rectifier input on the power supply module to provide "soft turn-on" when the receiver is first plugged into an AC source. A metal oxide varistor (MOV901) located in the ground return path for the +128V and +36V supplies (T901 secondary) on the sweep module provides line transient suppression.

Protection against excessive high voltage is provided by the High Voltage Shutdown circuit. This circuit senses the amplitude of a pulse from pin 5 of the High Voltage Transformer (T701). The amplitude of this pulse is directly related to the high voltage. An increase in pulse amplitude, indicating an increase in high voltage, causes SCR990 to conduct which in turn shorts the supply for the horizontal oscillator to chassis ground through Y991. This "kills" the B+ supply for the sweep oscillator (IC501), shutting down the horizontal sweep and high voltage circuits. The Shutdown circuit will remain activated until the receiver is switched OFF for 5 to 10 seconds before the receiver will reset.

B+(128V) REGULATOR ADJUSTMENT

The 128V regulated B+ voltage is important to the operation of the receiver because it regulates the horizontal output section which supplies all the secondary Scan supply voltages used throughout the receiver.

To assure continued product safety and regulatory compliance, it is very important that the following procedure is completed each time the 128V B+ regulator circuit is serviced:

1. Measure 128V B+ at TP902 (Signal Module) at zero brightness condition preferably using a digital voltmeter (at least 1% accuracy) or a mirrored scale meter with 3% accuracy. Line voltage is not critical but should be between 108 and 128 volts. Perform brightness range and low light adjustment procedure (see Gray Scale and Brightness Centering section) if zero brightness cannot be achieved. This step is very important for the proper setting of B+. Allow 10 minute warm-up.
2. Adjust R912 (REG. ADJ.) on the power supply module for 128V ± 0.5V if necessary.

HIGH VOLTAGE SHUTDOWN CIRCUIT CHECK

(PERFORM WHENEVER HIGH VOLTAGE CIRCUITRY OR POWER SUPPLY BOARD IS SERVICED.)

1. With Brite and Picture controls set at minimum, pin 1 (HVSD TEST) to ground should read +100 to +110VDC.
2. Set Brite and Picture controls to maximum and measure DC voltage at pin 4 (HVSD TEST) to ground. The voltage should be between -2.8 and -3.8 volts.
3. Short pin 1 to pin 3 (HVSD Test). High voltage must shutdown, and stay down after short is removed.
4. Remove short, switch receiver OFF (wait 5 to 10 seconds) and then back ON.
5. Set should operate normally.

NOTE: THE CAUSE FOR ANY DEVIATIONS FROM NORMAL NOTED IN STEPS 1,2 and 3 ABOVE MUST BE IDENTIFIED AND CORRECTED BEFORE OPERATING THE RECEIVER.

HORIZONTAL HOLD

Adjust the Horizontal Hold control (R505) for a stationary picture. For more accurate adjustment, short TP501 to TP502, and adjust the Horizontal Hold control (R505) so that the picture floats slowly across the screen. Remove short between TP501 and TP502.

HORIZONTAL CENTERING

With cabinet back removed, center the raster horizontally by adjusting the Horizontal Centering control (R1903).

VERTICAL SIZE AND CENTERING

Adjust the Vertical Size control (R619) so that the raster overscans the screen by about ½ inch when operating at nominal (120VAC) line voltage. With cabinet back removed, center the raster vertically by adjusting the Vertical Centering control **(R657)**

HIGH VOLTAGE CHECK

1. Remove cabinet back.
2. Operate receiver for at least 15 minutes at 120 VAC line with strong air signal or test signal properly tuned in.
3. Rotate Brightness control fully CCW. Before proceeding perform B+ 128V regulator adjustment, if necessary.
4. Connect an accurate high voltage meter to CRT anode. Reading should be between 27.5 and 30.5KV on 19" Sets and 28.7 and 32.2KV on 25" Sets

If correct reading cannot be obtained, check horizontal output circuitry for malfunctioning components

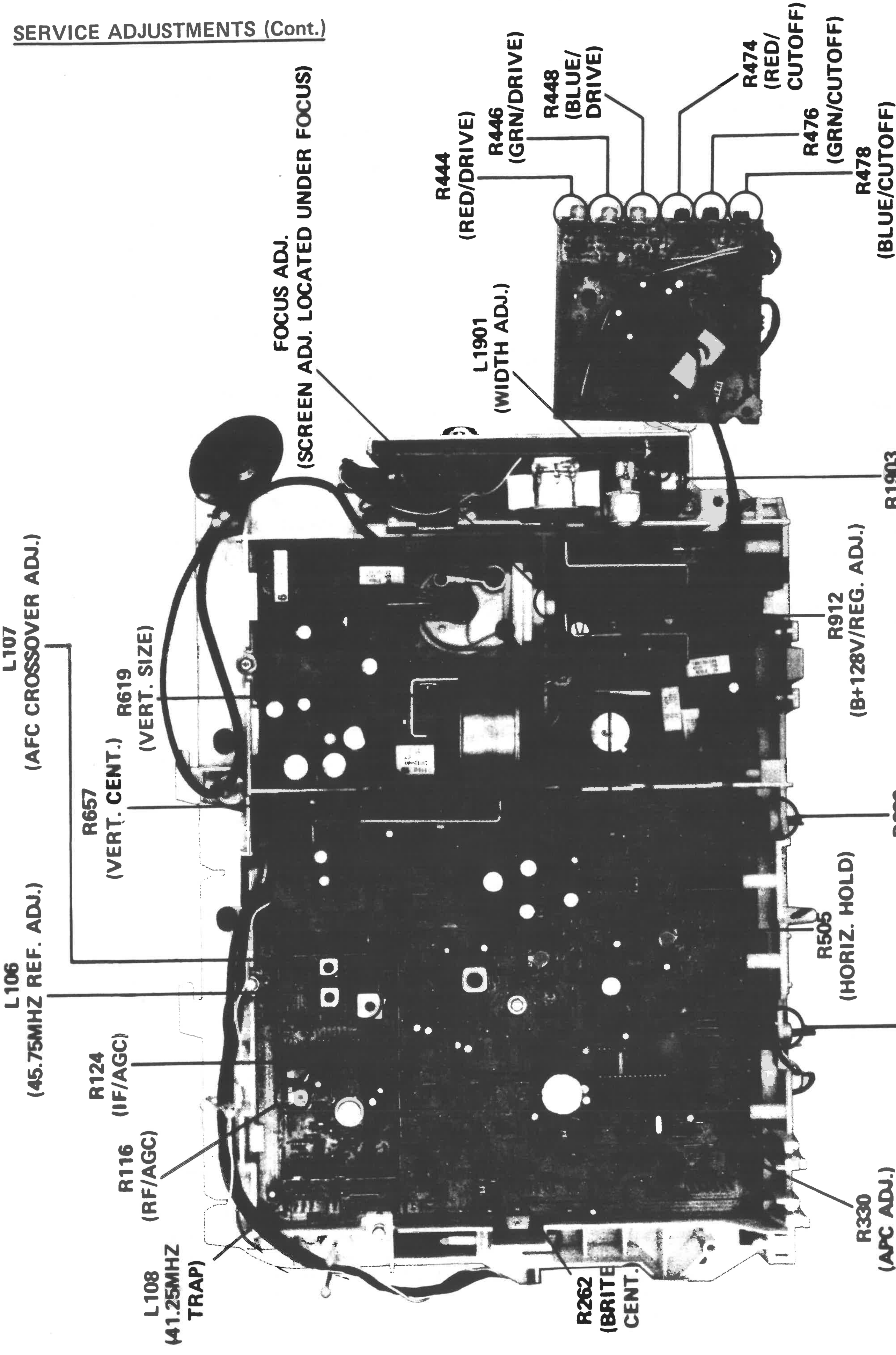
FOCUS

Adjust the Focus control for maximum over all definition and fine picture detail with Brightness and Picture (contrast) controls set at normal viewing levels

SHARPNESS CONTROL (R260)

Adjust the Sharpness control to obtain a pleasing picture. The full clockwise position gives most sharpness. A weak or snowy picture can sometimes be improved by adjusting to the full counterwise position.

SERVICE ADJUSTMENTS (Cont.)



PM CHASSIS SERVICE ADJUSTMENTS

SERVICE ADJUSTMENTS (Cont.)

APC ADJUSTMENT (R330)

APC is factory pre-set; field adjustment is not normally required. However, if the "pot seal" has been broken and misadjustment has occurred, re-adjustment is as follows:

1. Tune in a channel with a strong color signal.
2. Place a 0.01 uF capacitor across TP300 and TP301.
3. Place a 0.01 uF capacitor across TP302 and TP303.
4. Adjust APC control (R330) until color on the screen stops fluttering (zero beat)
5. Remove the 0.01 uF capacitors.

COLOR PURITY ADJUSTMENT

For best results, it is recommended that the Purity adjustment be made in the final receiver location. If the receiver will be moved, perform this adjustment with receiver facing North. The receiver must have been operating 10 minutes prior to performing this procedure and the faceplate of the CRT must be at room temperature.

The receiver is equipped with an automatic degaussing circuit. However, if the CRT shadow mask has become excessively magnetized, it may be necessary to degauss it with a manual coil. Do not switch the coil OFF while the raster shows any effect from the coil.

The following (Step) procedure is recommended while using the pattern produced by a Dot/Bar Generator.

STEP #1 - Purity

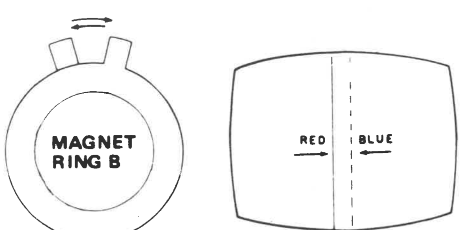
1. Degauss and allow receiver to warm up at least 10 minutes before adjusting for purity. The convergence/purity magnetic assembly should be secured 1½ inch from the tip of the CRT pins (See Figure 1). The convergence at the picture center should be set approximately correct. Go to Step #2 (STATIC CONVERGENCE) and perform, if necessary, before proceeding.
2. Using a blank raster, Turn Blue (R478), Red (R474), and Green (R476) Cutoff controls fully CCW. Turn brightness fully CW. Adjust Brite Center (R262), until raster is just cut off. Adjust Red Cutoff (R474) control CW for red raster.
3. Slide deflection yoke back. Set purity rings so that the squared tab and the rounded tab are together and horizontal. Separate the rings to center the red bar (See Figure 2). Do not rotate the rings as this will cause a vertical movement of the red bar.
4. Slide the deflection yoke forward to obtain a pure red field.
5. Turn Red Cutoff (R474) control fully CCW, and, one at a time, turn up the Blue (R478) and Green Cutoff (R476) controls to check the purity of the blue and green fields. If necessary, repeat adjustments for best compromise. Secure the yoke clamp.

STEP #2 — STATIC CONVERGENCE

GREEN GUN IS THE CENTER GUN. CONVERGE THE RED AND BLUE. THEN CONVERGE RED AND BLUE ON GREEN. USE A CROSSHATCH PATTERN.

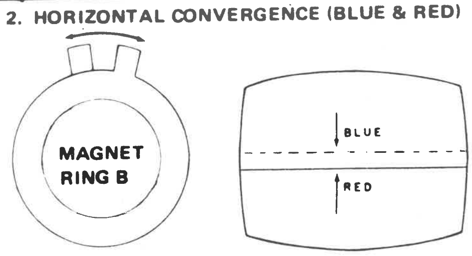
SEE FIG. 1 FOR LOCATION OF MAGNET RINGS

1. VERTICAL CONVERGENCE (BLUE & RED)



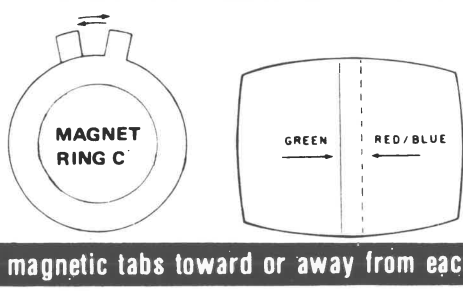
Side magnetic tabs toward or away from each other.

2. HORIZONTAL CONVERGENCE (BLUE & RED)



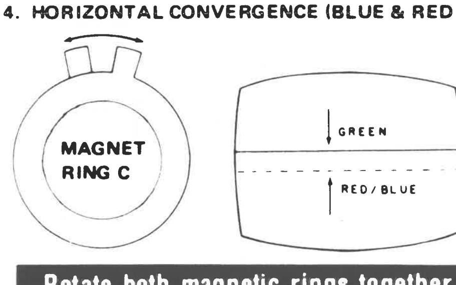
Rotate both magnetic rings together

3. VERTICAL CONVERGENCE (BLUE & RED ON GREEN)



Side magnetic tabs toward or away from each other.

4. HORIZONTAL CONVERGENCE (BLUE & RED ON GREEN)



Rotate both magnetic rings together.

REPEAT STEP 1 AND 2. IF ALL LINES ARE NOT CONVERGED AT CENTER.

SERVICE ADJUSTMENTS (Cont.)

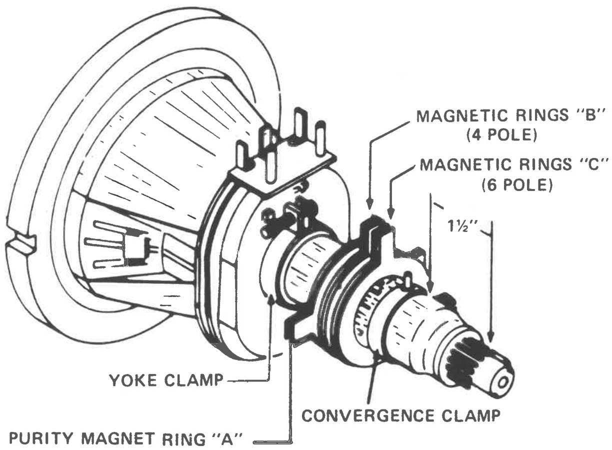


FIGURE 1

STEP #3 - DYNAMIC CONVERGENCE

1. Use a crosshatch pattern.
2. If it is necessary to correct for horizontal splits (See Figure 4), insert a wedge between the CRT and yoke at position A (Figure 3).
3. If it is necessary to correct for vertical splits (Figure 5) readjust the wedge slightly to the left or right.
4. For edge convergence insert a wedge in position B or E (Figure 3). If the blue is high (Figure 6) insert a wedge in position B. If the red is high (Figure 7) insert a wedge in position E.
5. To "lock" the dynamic convergence:
   A. If the second wedge was inserted in position B, insert the third wedge in position D.
   B. If the second wedge was inserted in position E, insert the third wedge in position C.
   C. Confirm that the dynamic convergence remains properly aligned and lock each wedge in position with a strip of tape.

STEP #4 - GRAY SCALE AND BRIGHTNESS CENTERING

1. Turn in a color picture, set the Brightness, Picture, Color, Red, Green, Blue Cutoff controls and screen control fully CCW. Set R, G, B Drive Controls R444, R446, R448) and Brite Center (R262) fully CW.
2. Turn the VIR off. Place black tape over Light Sensor (not on all models).
3. Disconnect the vertical yoke plug, PG11. Short TP401 to TP402. Adjust Screen Control CW until raster line lights. Then turn it CCW until the line just goes black. Disconnect the short from TP401.
4. Turn Brightness fully CCW until first gun just lights. Adjust Red, Blue, and Green Cutoff controls to just illuminate the line. Connect vertical yoke plug, PG11.
5. Turn Picture Control and Brite Center (R262) Range up for normal picture. Adjust the Drive Control of the predominant color for best gray scale in the high brightness areas.
6. Readjust Cutoff controls for low brightness areas. Repeat as necessary. Remove tape from Light Sensor opening.
7. Brite Center Adjustment - Turn the Brightness control fully CW and the Picture control fully CCW. Turn the Brite Center so that the black areas in the picture are slightly gray.

PURITY

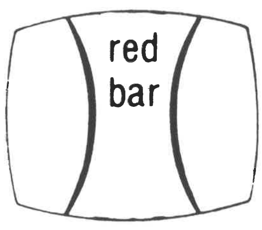


FIGURE 2

WEDGE POSITIONS

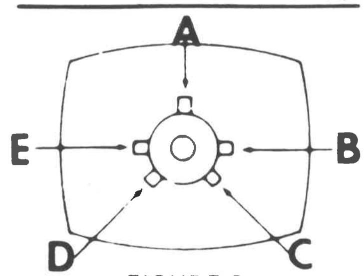


FIGURE 3
(REAR VIEW)

HORIZONTAL SPLITS

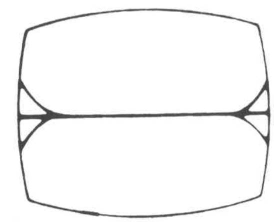


FIGURE 4

VERTICAL SPLITS

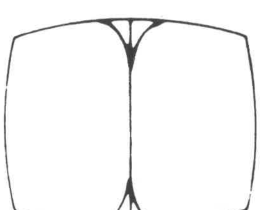


FIGURE 5

BLUE (HIGH)

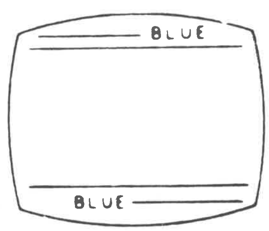


FIGURE 6

RED (HIGH)

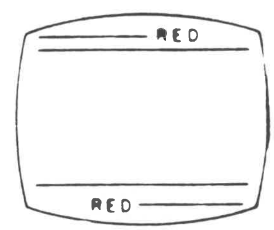


FIGURE 7

ALIGNMENT

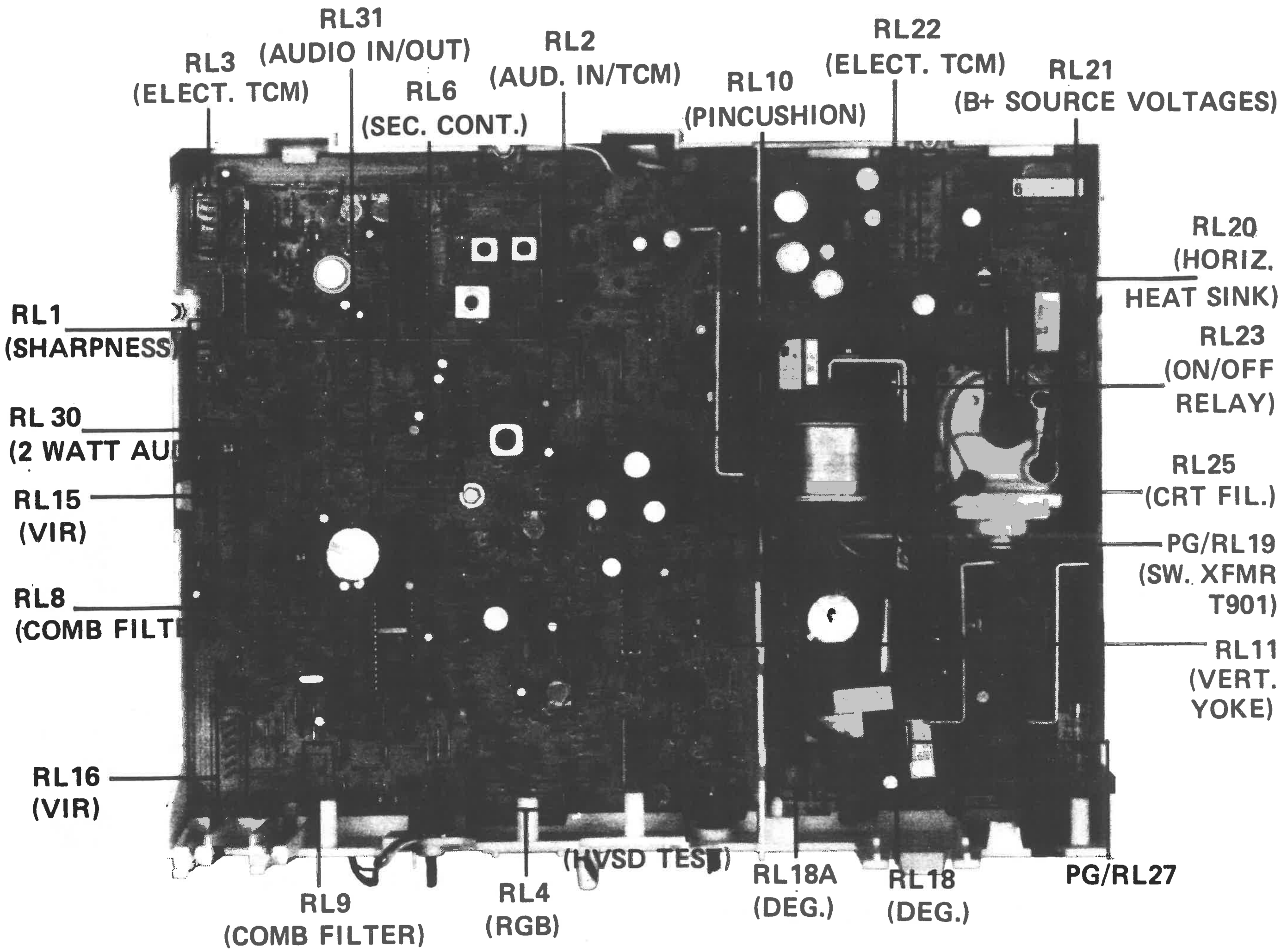


FIGURE 8 PM CHASSIS PLUG LOCATIONS

VIDEO IF ALIGNMENT

CAUTION: THE PM CHASSIS IS A "HOT" AND "COLD" CHASSIS THAT USES A TWO-GROUND SYSTEM. THE POWER SUPPLY MODULE IS ELEVATED 70VAC ABOVE EARTH GROUND AND IS ALWAYS "HOT" WHEN THE AC CORD IS PLUGGED IN. THE REST OF THE CHASSIS IS "COLD" AND IS ISOLATED FROM THE POWER SUPPLY MODULE BY SWITCHING TRANSFORMER (T901). NEVER CONNECT THE POWER SUPPLY MODULE GROUND TO ANY OTHER GROUND IN THE RECEIVER AND ALWAYS USE AN ISOLATION TRANSFORMER WHEN SERVICING.

TEST EQUIPMENT

To properly align these chassis, the following test equipment with minimum requirements as specified should be used. Plug the receiver into an isolation transformer.

DOT/CROSSHATCH/COLOR BAR GENERATOR
OSCILLOSCOPE - Vertical response to at least 4.5MHz
SWEEP GENERATOR-

A. With the following ranges:
1. 0 to 5MHz
2. 38 to 48MHz
3. One lo-band and one hi-band VHF channel.

B. Output adjustable with at least .1 Volts minimum.

MARKER GENERATOR -
To provide IF and chroma marker frequencies with crystal accuracy.

BIAS SUPPLY - 0 to 6VDC, variable

POWER SUPPLY - Capable of at least 17VDC output.

GENERAL

Switch OFF power to receiver. Disconnect PG3, PG7 and PG22. Refer to Figure 8 for location of plugs. Set-up test equipment as shown in Figure 9.

POWER SUPPLY

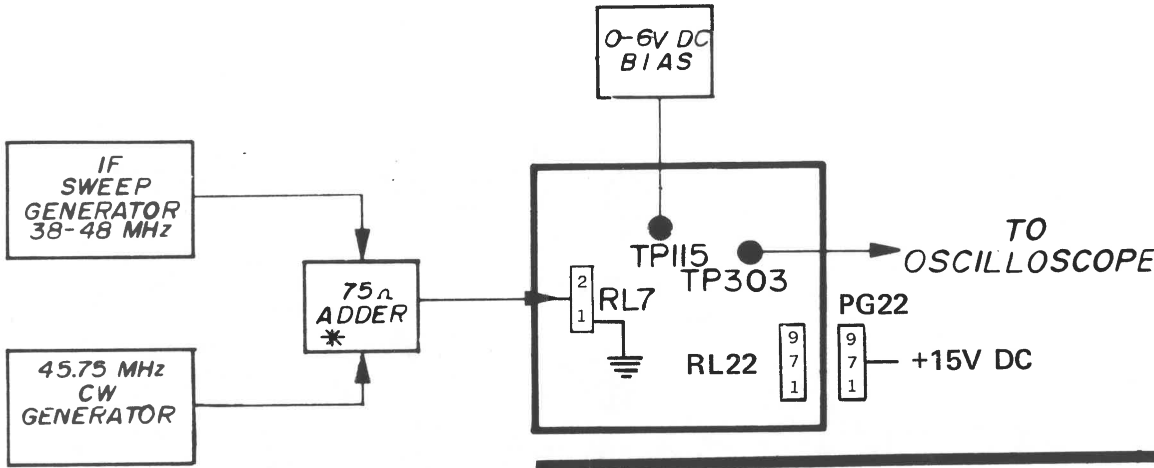
Connect the Positive lead of a 15 Volt Power supply to pin 7 of PG22 or input of REG IC902. Connect the Negative lead to the signal board chassis.

CAUTION: Before connecting test equipment to the module, the power supply must be disconnected or switched off.

BIAS SUPPLY

Connect the Negative lead of a Bias supply (0-6VDC) to the signal board chassis. Connect the Positive lead to TP115. Refer to Figure 9.

ALIGNMENT (Cont.)



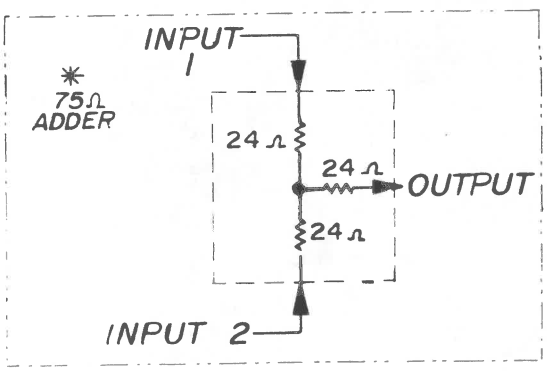


FIGURE 9 TEST SET-UP FOR IF ALIGNMENT

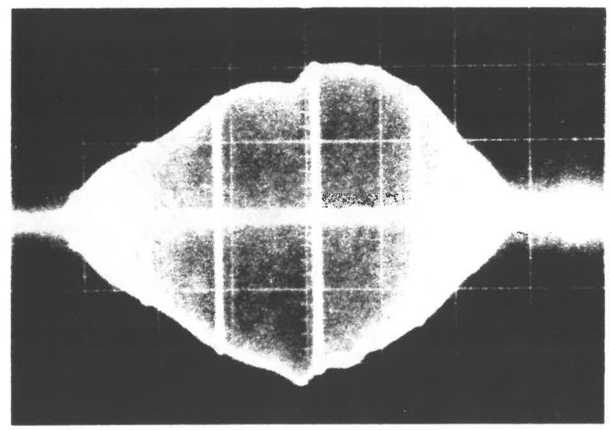


FIGURE 10 OVERALL IF SWEEP RESPONSE CURVE

NOTE: DURING ALIGNMENT PROCESS BE CAREFUL TO MAINTAIN THE 44MHz MARKER AT 0.8V (P-P) BIAS. READJUST IF NECESSARY.

L106 (45.75MHz REF) ALIGNMENT

1. Input 45.75MHz CW signal to RL7, Pin 2.
2. Adjust input level so that DC voltage at RL3 pin 5 (RF/AGC) is between 5 and 7VDC.
3. Adjust L106 slug for minimum DC voltage.

L107 (AFC) ALIGNMENT

1. Input 45.75MHz CW signal to RL7, Pin 2.
2. Adjust input level so that DC voltage at RL3 pin 5 (RF/AGC) is between 5 and 7VDC.
3. Place meter across pins 4 and 6 of RL3.
4. Adjust L107 for 0.0 ± 0.5 VDC.

OVERALL IF SWEEP AND 41.25MHz TRAP ALIGNMENT

(Refer to Figure 9 for test set-up).

1. Set Bias to 5.0VDC + 0.25VDC.
2. Adjust both generators to obtain a 0.8V(P-P) waveform.
3. Adjust L105 to minimize to 41.25MHz marker.
4. Adjust L108 (top slug) to minimize 41.25MHz marker.
5. Adjust L108 (bottom slug) to maximize 44MHz marker.

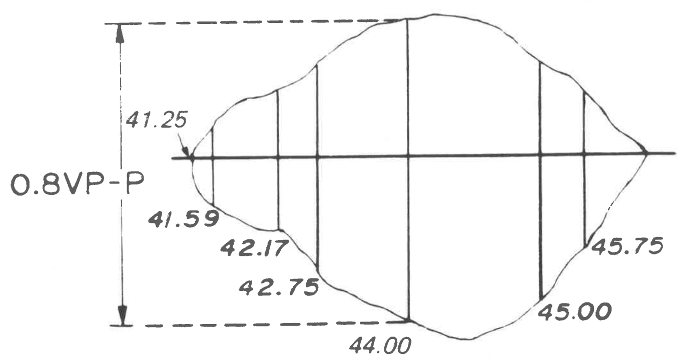


FIGURE 11 OVERALL IF SWEEP RESPONSE CURVE WITH MARKERS

GENERAL ELECTRIC

TELEVISION

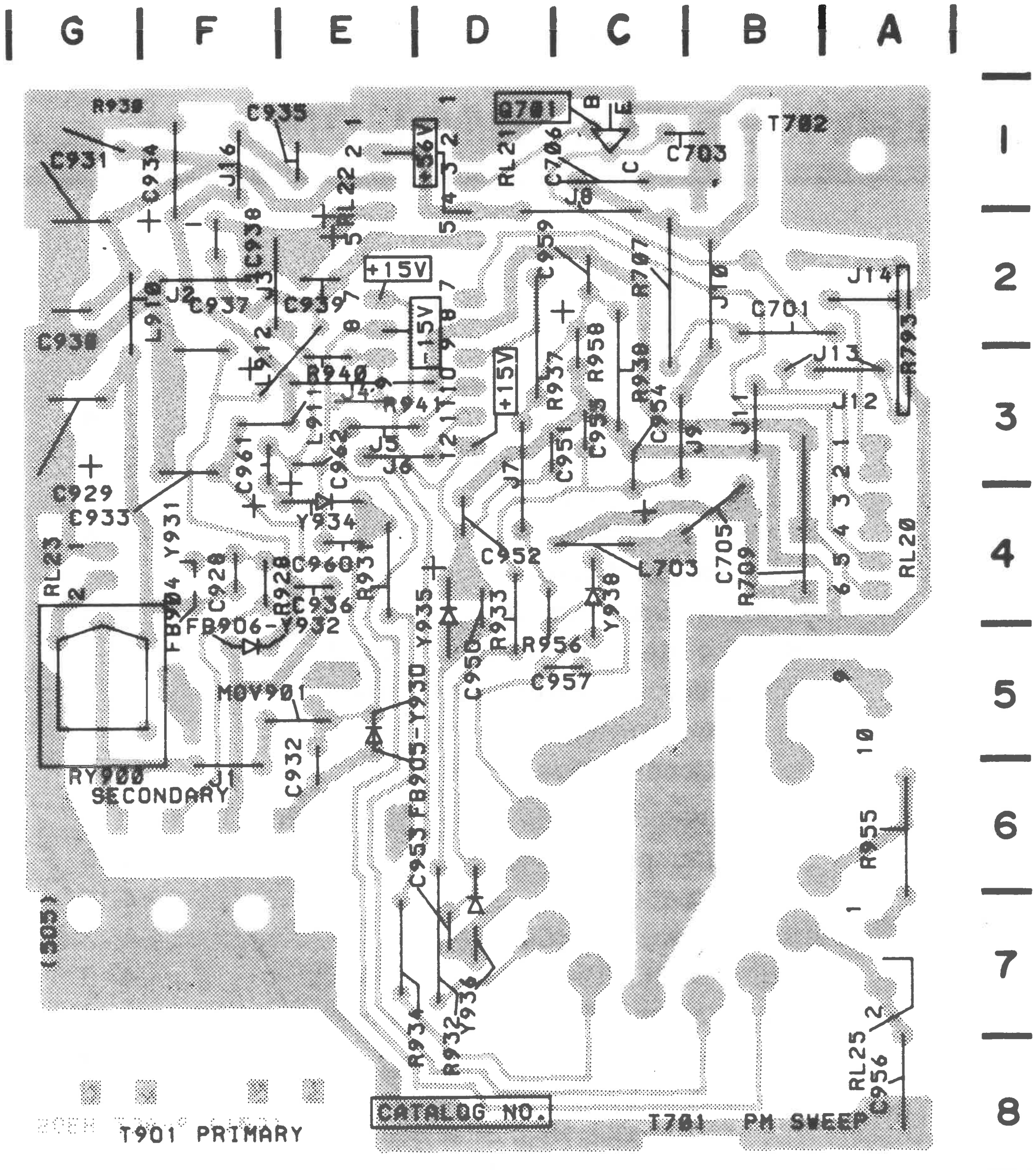
SERVICE INFORMATION

TELEVISION
PM CHASSIS

SECTION 4
CIRCUIT BOARDS/
MODULES

Section 4 Index

PM SWEEP CIRCUIT BOARD LAYOUT



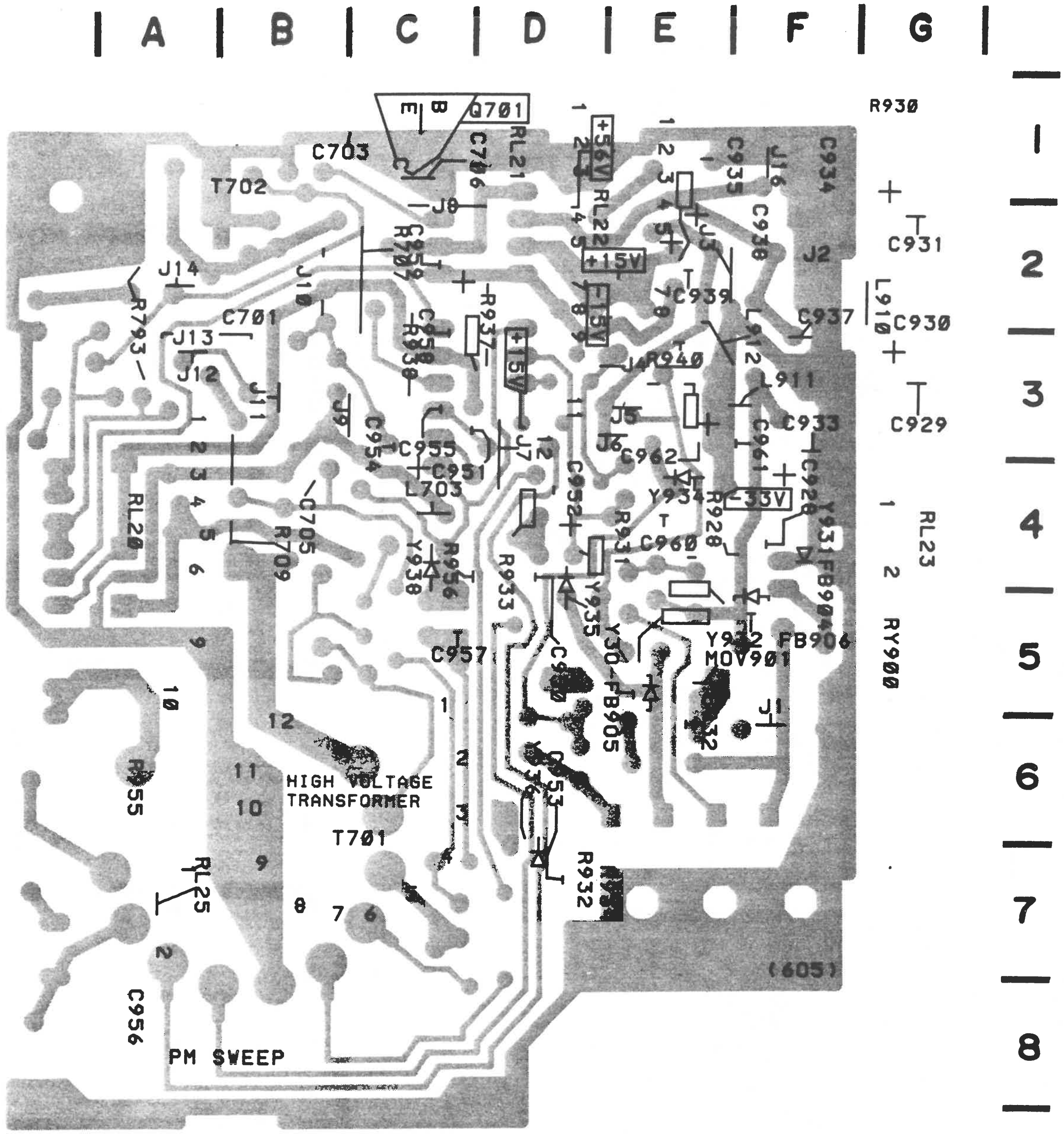
COMPONENT SIDE

CAPACITORS
- C701-B2
- C703-B1
- C705-B4
- C706-C1
- C928-F4
- C929-G3
- C930-G2
- C931-G2
- C932-E6
- C933-F3
- C934-F1
- C935-E1
- C937-F2
- C938-F2
- C939-E2
- C950-D5
- C951-C4
- C952-D4
- C953-D6
- C954-C3
- C955-C3
- C956-A8
- C957-C5
- C958-C3
- C959-C2
- C960-E4
- C961-F3
- C962-E3

RESISTORS
- R707-C2
- R709-B4
- R793-A2
- R928-E4
- R930
- R931-E4
- R932-D7
- R933-D4
- R934-E7
- R937-D2
- R938-C3
- R940-E3
- R955-A6
- R956-C4

JUMPERS
- J1-F6
- J2-F2
- J3-E2
- J4-E3

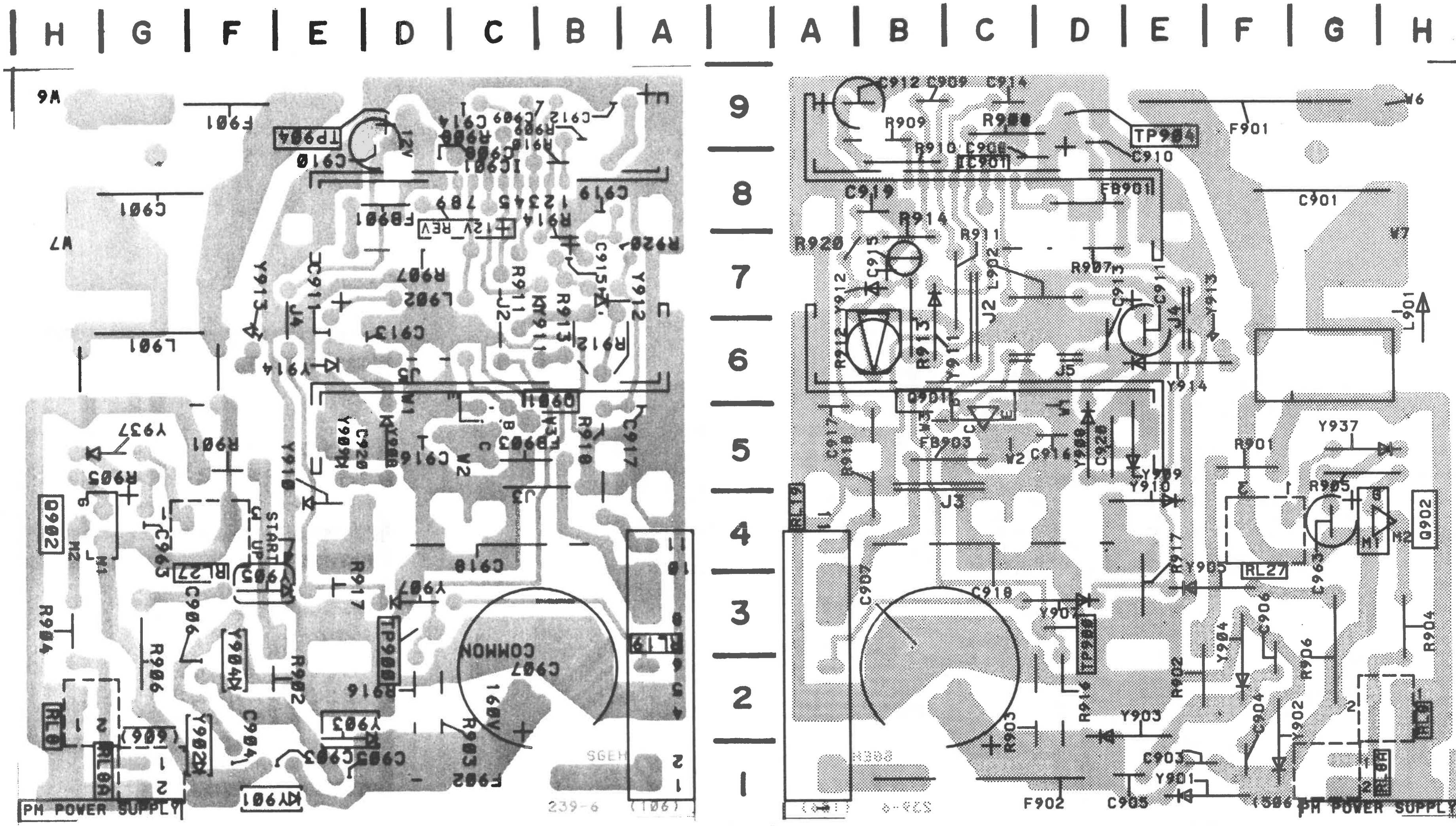
PM SWEEP CIRCUIT BOARD LAYOUT (CONT.)



COPPER SIDE

JUMPERS (CONT.)		RECEPTACLES	DIODES
J5-E3	L910-G2	RL20-A4	Y931-F4
J6-E3	L911-F3	RL21-D1	Y934-E4
J7-D3	L912-F3	RL22-D2	Y935-D5
J8-C2		RL23-G4	Y936-D6
J9-B3		RL25-A7	Y938-C4
J10-B2			
J11-B3		**RY**	**MOV**
J12-A3		RY900-G5	MOV901-F5
J13-A3			
J14-A2		**Y & FB'S**	**TRANSISTORS**
J16-F1		Y30-FB905-E5	Q701-C1
		Y932-FB906-F5	
COILS & TRANSFORMERS			**FB**
T701-C7			FB904-F4
T702-A1			
L703-C4			

PM POWER SUPPLY CIRCUIT BOARD LAYOUT



COPPER SIDE — COMPONENT SIDE

RESISTORS
R901-F5
R902-E3
R903-C2
R904-H4
R905-G5
R906-G3
R908-C9
R909-B9
R910-B9
R911-B7
R912-B7
R913-B7
R914-B8
R916-D3
R917-D4
R918-B6
R920-A8

RECEPTACLES
RI8-H2
RL19-A3
RL27-F4
RL88-G2

COILS
L901-G7
L902-D7

CAPACITORS
C901-G8
C903-E2
C904-F2
C905-D2
C906-F4
C907-B3
C908-C9
C909-B9
C910-E9
C911-E7
C912-B9
C913-D7
C914-C9
C915-B7
C916-D5
C917-A6
C918-C4
C919-A8
C920-D5
C963-G4

ICS
IC901-C8

TRANSISTORS
Q901-B6
Q9[illegible]5

TEST POINTS
TP900
TP904-E9

DIODES
Y901-E2
Y902-F2
Y903-D2
Y904-F3
Y905-E4
Y907-D4
Y908-D6
Y909-E6
Y910-E5
Y911-B7
Y912-A7
Y913-F7
Y914-E6
Y937-G6

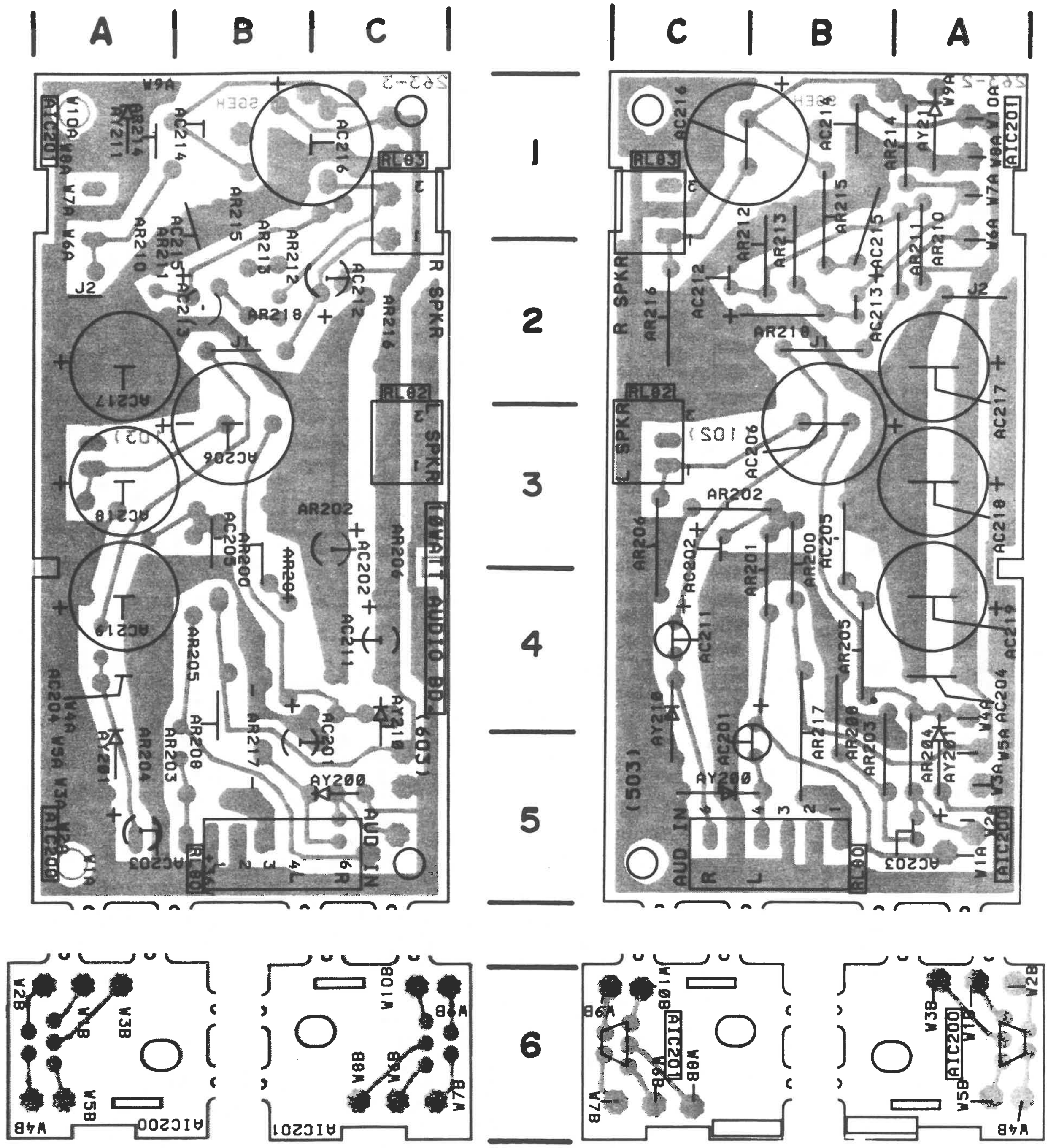
JUMPERS
J2-C7
J3-B5
J4-E7
J5-D6

FUSE
F901-F9
F902-C2
F907-D7

FBS
FB901-D8
FB903-B5

PM 10-WATT AUDIO CIRCUIT BOARD LAYOUT

COPPER SIDE *COMPONENT SIDE*



RESISTORS
AR200-B3
AR201-B3
AR202-C3
AR203-B5
AR204-A5
AR205-B4
AR206-C3
AR208-B5
AR210-A1
AR211-A1
AR212-B1
AR213-B2
AR214-A1
AR215-B1
AR216-C2
AR217-B5
AR218-B2

CAPACITORS
AC201-C5
AC202-C3
AC203-A5
AC204-A4
AC205-B3
AC206-B3
AC211-C4
AC212-C2
AC213-B2
AC214-B1
AC215-B2
AC216-C1
AC217-A2
AC218-A3
AC219-A4

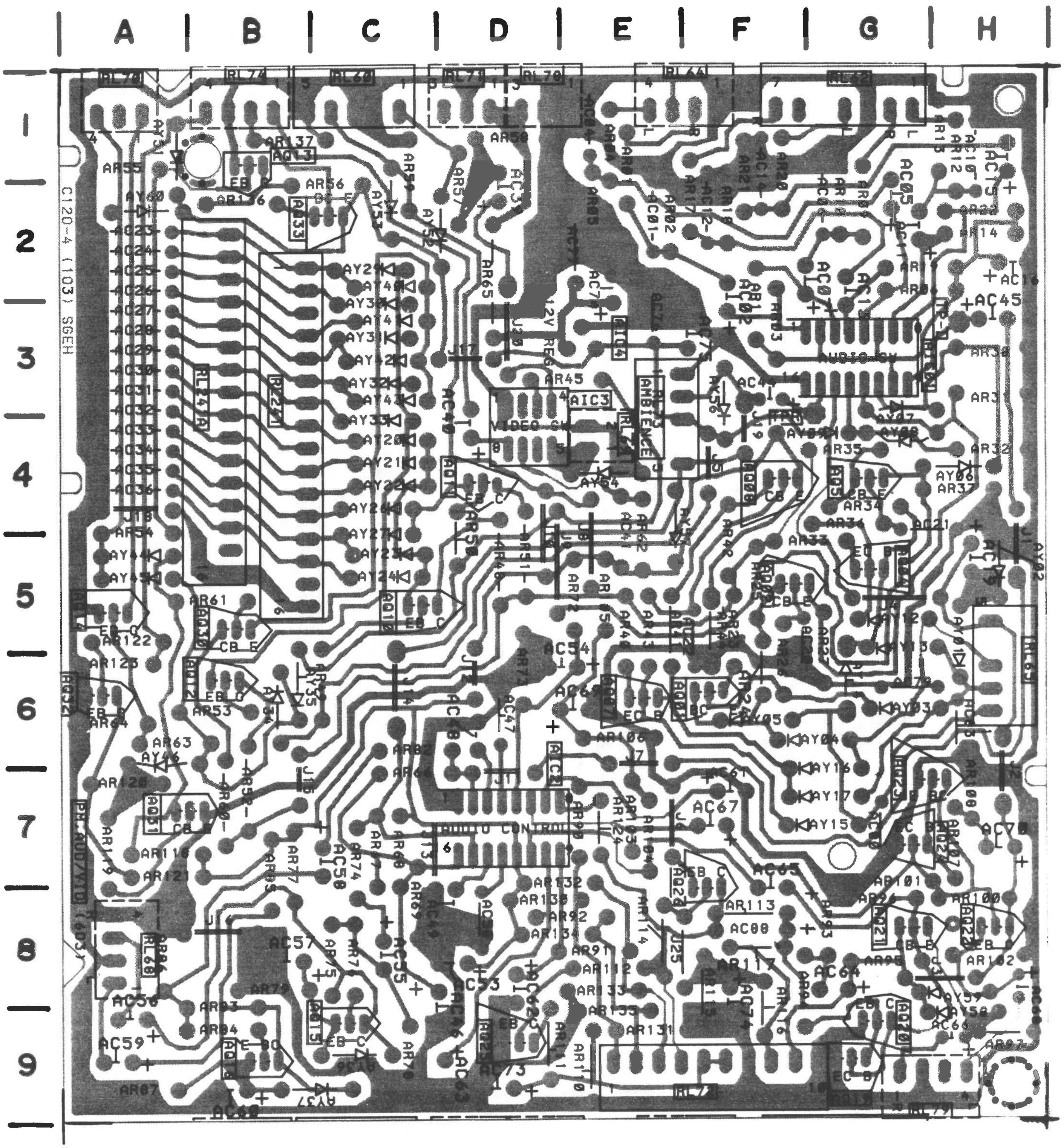
DIODES
AY200-C5
AY201-A5
AY210-C4
AY211-A1

RECEPTACLES
RL80-B5
RI82-C2
RL83-C1

JUMPERS
J1-B2
J2-A2

INTEGRATED CIRCUITS
AIC200-A6
AIC201-A1
AIC201-C6

PM AUDIO/VIDEO CONTROL CIRCUIT BOARD LAYOUT

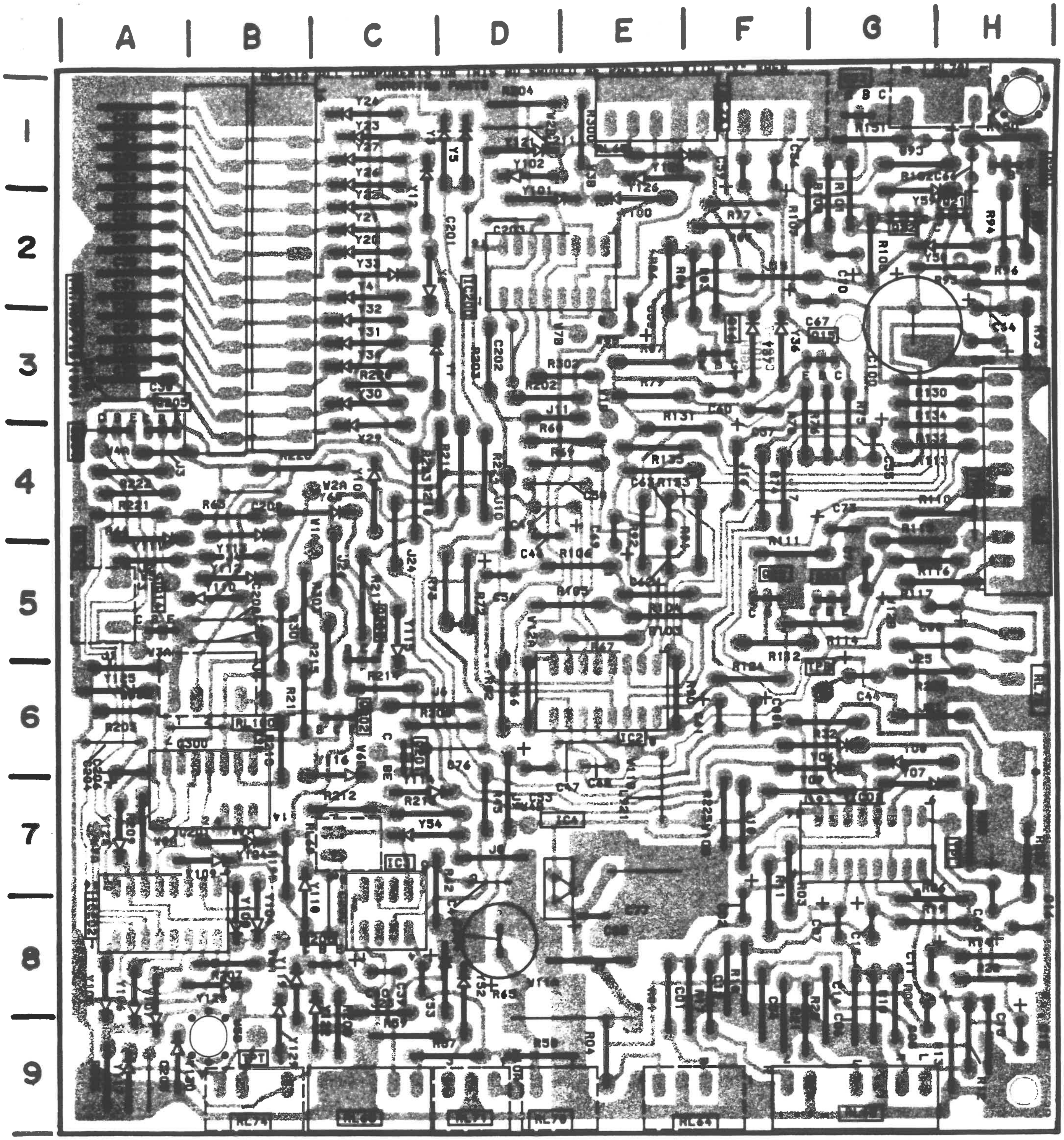


COMPONENT SIDE

RESISTORS	AR06-G2	AR18-F2	AR27-G5	AR37-H4	AR50-D5	AR58-D1	AR66-C7	AR76-C8
AR01-E1	AR09-G2	AR19-G2	AR30-H3	AR40-E5	AR51-D5	AR59-C1	AR67-C7	AR77-B7
AR02-E2	AR10-G2	AR20-F1	AR31-H3	AR42-F5	AR52-B7	AR60-B7	AR68-C7	AR78-C9
AR2-F6	AR11-F3	AR21-F1	AR32-H4	AR43-E5	AR53-B6	AR61-B5	AR69-C8	AR79-B8
AR03-F3	AR12-H1	AR22-H2	AR33-G5	AR44-F5	AR54-A4	AR62-E5	AR72-E5	AR82 C6
AR04-E1	AR13-H1	AR23-F5	AR34-G4	AR45-E3	AR55-A1	AR63-A6	AR73-D6	AR83-B9
AR4-E5	AR14-H2	AR25-F5	AR35-G4	AR48-D5	AR56-C2	AR64-A6	AR74-C7	AR84-B9
AR05-E2	AR17-F2	AR26-F6	AR36-G4	AR49-C6	AR57-D2	AR65-D2	AR75-C8	AR85-B7

PM AUDIO/VIDEO CONTROL CIRCUIT BOARD LAYOUT

EP93X522 (PM–C Only)

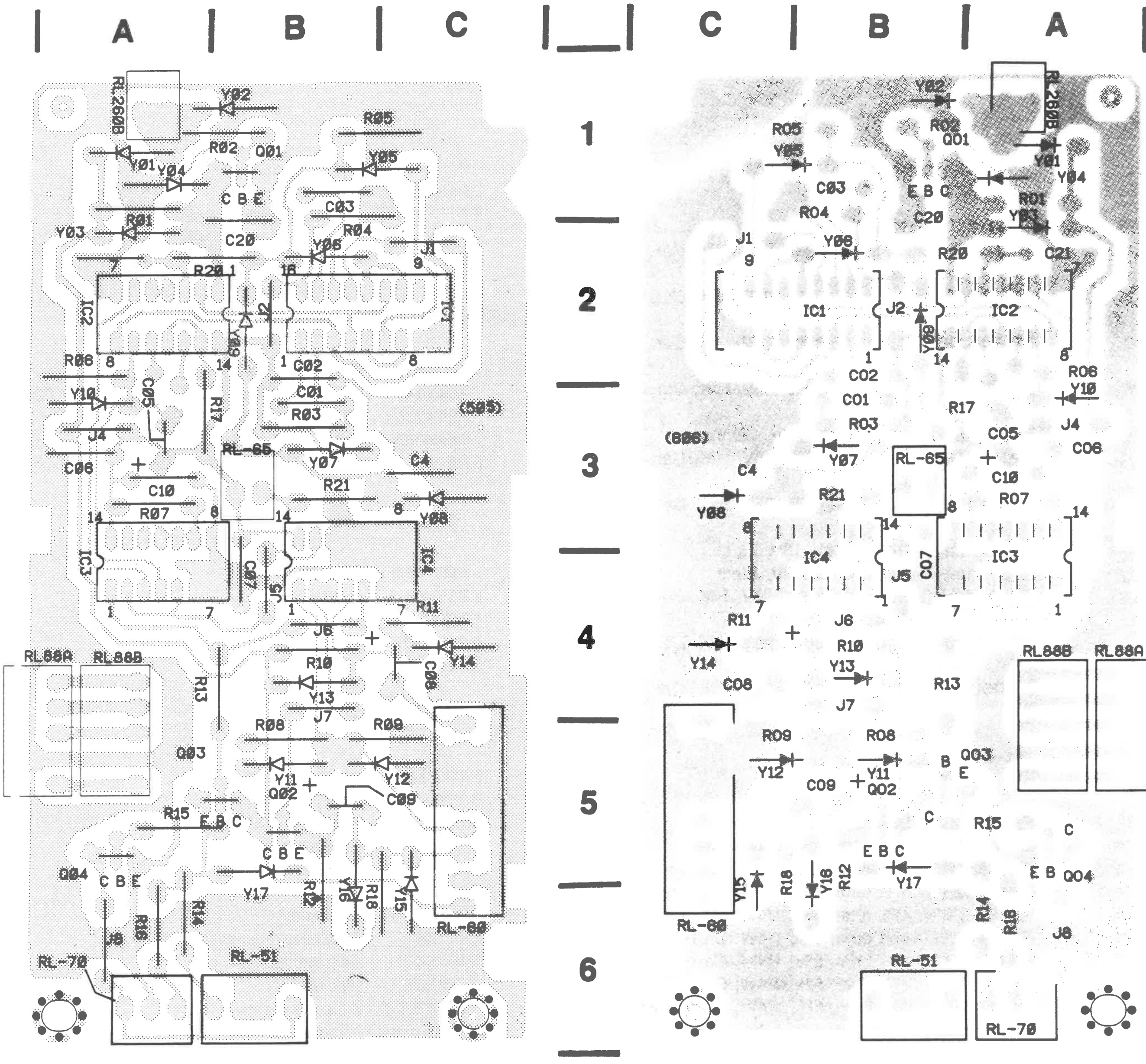


COMPONENT SIDE

RESISTORS	VR11 - F7	VR20 - F8	VR58 - D9	VR67 - E5	VR76 - G4	VR85 - F2	VR94 - H2	VR103 - E5
VR01 - E8	VR12 - H9	VR21 - F8	VR59 - C9	VR68 - D4	VR77 - F2	VR86 - E2	VR95 - H2	VR104 - E5
VR03 - F7	VR13 - H9	VR22 - H8	VR62 - C7	VR69 - D4	VR78 - F2	VR87 - E3	VR96 - H2	VR105 - E5
VR04 - E9	VR14 - H8	VR30 - H7	VR63 - B4	VR72 - D5	VR79 - E3	VR90 - F6	VR97 - H2	VR106 - E5
VR06 - G7	VR17 - F8	VR32 - G6	VR64 - A4	VR73 - D5	VR82 - D6	VR91 - F6	VR100 - G2	VR107 - F2
VR09 - G8	VR18 - F8	VR45 - D7	VR65 - D8	VR74 - F4	VR83 - F2	VR92 - E4	VR101 - G2	VR108 - G2
VR10 - G8	VR19 - G8	VR57 - C9	VR66 - D6	VR75 - G3	VR84 - F2	VR93 - H3	VR102 - G1	VR110 - G4

3/85 Supersedes 6/83

MODE SWITCH CIRCUIT BOARD LAYOUT
EP93X525 (PM-C CHASSIS)



COMPONENT SIDE

COPPER SIDE

CAPACITORS
AC1-B3
AC2-B2
AC3-B1
AC4-C3
AC5-A3
AC6-A3
AC7-B4
AC8-C4
AC9-B5
AC10-A3
AC20-B2

RESISTORS	
AR01-A2	AR12-B5/B6
AR02-B1	AR13-B4
AR03-B3	AR14-A6
AR04-B2	AR15-A5
AR05-B1/C1	AR16-A6
AR06-A2	AR17-A3
AR07-A3	AR18-B6/C6
AR08-B5	AR20-A2/B2
AR09-B5/C5	
AR10-B4	
AR11-C4	

INTEGRATED CIRCUITS
AIC1-B2/C2
AIC2-A2
AIC3-A4
AIC4-B4/C4

TRANSISTORS
AQ01-B1
AQ02-B5
AQ03-A5/B5
AQ04-A5

DIODES	
AY01-A1	AY12-B5/C5
AY02-B1	AY13-B4
AY03-A2	AY14-C4
AY04-A1	AY15-C5/C6
AY05-B1/C1	AY16-B5/B6
AY06-B2	AY17-B5
AY07-B3	
AY08-C3	
AY09-B2	
AY10-A3	
AY11-B5	

JUMPERS
J2-B2
J1-C2
J4-A3
J5-B4
J6-B4
J8-A6

MODE SWITCH CIRCUIT BOARD

EP93X525

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
AC1	EP18X118	.1μf, +20-80%, 25V, HiK, Cer. Disc
AC2	EP18X118	.1μf, +20-80%, 25V, HiK, Cer. Disc
AC3	EP18X118	.1μf, +20-80%, 25V, HiK, Cer. Disc
AC4	EP18X118	.1μf, +20-80%, 25V, HiK, Cer. Disc
AC5	EP31X162	100μf, 20%, 25V, Elect.
AC6	EP18X118	.1μf, +20-80%, 25V, HiK, Cer. Disc
AC7	EP18X118	.1μf, +20-80%, 25V, HiK, Cer. Disc
AC8	EP31X162	100μf, 20%, 16V, Elect.
AC9	EP31X162	100μf, 20%, 16V, Elect.
AC10	EP18X118	.1μf, +20-80%, 25V, HiK, Cer. Disc
AC20	EP18X118	.1μf, +20-80%, 25V, HiK, Cer. Disc
AC21	EP18X118	.1μf, +20-80%, 25V, HiK, Cer. Disc

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
AR01	EP14X125	47K ohm, 5%, 1/4W, Carbon
AR02	EP14X125	47K ohm, 5%, 1/4W, Carbon
AR03	EP14X125	47K ohm, 5%, 1/4W, Carbon
AR04	EP14X125	47K ohm, 5%, 1/4W, Carbon
AR05	EP14X125	47K ohm, 5%, 1/4W, Carbon
AR06	EP14X103	10K ohm, 5%, 1/4W, Carbon
AR07	EP14X125	47K ohm, 5%, 1/4W, Carbon
AR08	EP14X415	82K ohm, 5%, 1/4W, Carbon
AR09	EP14X136	33K ohm, 5%, 1/4W, Carbon
AR10	EP14X415	82K ohm, 5%, 1/4W, Carbon
AR11	EP14X136	33K ohm, 5%, 1/4W, Carbon
AR12	ES14X70	100 ohm, 5%, 1/4W, Carbon
AR13	EP14X380	27K ohm, 5%, 1/4W, Carbon
AR14	ES14X61	820 ohm, 5%, 1/4W, Carbon
AR15	EP14X103	10K ohm, 5%, 1/4W, Carbon
AR16	EP14X418	5.1K ohm, 5%, 1/4W, Carbon
AR17	EP14X103	10K ohm, 5%, 1/4W, Carbon
AR18	EP14X136	33K ohm, 5%, 1/4W, Carbon
AR20	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
AR21	ES14X65	4.7K ohm, 5%, 1/2W, Carbon

INTERGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
AIC1	EP84X241	DUAL MONOSTABLE MULTIVIBRATOR
AIC2	EP84X240	HEX SCHMITT TRIGGER
AIC3	EP84X249	DUAL D FLIP FLOP
AIC4	EP84X30	QUAD ANALOG SWITCH

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
AQ01	EP15X86	NPN, Silicon
AQ02	EP15X86	NPN, Silicon
AQ03	EP15X86	NPN, Silicon
AQ04	EP15X86	NPN, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
AY01	EP57X4	Rectifier, Silicon
AY02	EP57X4	Rectifier, Silicon
AY03	EP57X4	Rectifier, Silicon
AY04	EP57X4	Rectifier, Silicon
AY05	ES16X27	Silicon
AY06	ES16X27	Silicon
AY07	EP57X4	Rectifier, Silicon
AY08	EP57X4	Rectifier, Silicon
AY09	ES16X27	Silicon
AY10	ES16X27	Silicon
AY11	EP57X4	Rectifier, Silicon
AY12	EP57X4	Rectifier, Silicon
AY13	EP57X4	Rectifier, Silicon
AY14	EP57X4	Rectifier, Silicon
AY15	EP57X4	Rectifier, Silicon
AY16	EP57X4	Rectifier, Silicon
AY17	EP16X58	Zener

PM-D CHASSIS
CIRCUIT BOARD LAYOUTS
AND PARTS LISTS

COMPONENT SIDE *COPPER SIDE*

LDR CIRCUIT BOARD

EP41X146

CAPACITOR

REF. NO.	PART NO.	DESCRIPTION
C1918	EP31X88	47μf, 20%, 16V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R1902	EP14X421	4.3K ohm, 5%, l/8W, Carbon
R1904	EP14X381	3K ohm, 5%, l/8W, Carbon
R1906	EP14X284	12K ohm, 5%, l/8W, Carbon
R1910	ES14X59	560 ohm, 5%, l/8W, Carbon
R1911	EP14X324	LIGHT DEPENDENT RESISTOR

RF SWITCH ASSEMBLY

EP93X612

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C1	EP23X22	1000pf, 500V, Feed Thru
C2	EP23X22	1000pf, 500V, Feed Thru

DIODE

REF. NO.	PART NO.	DESCRIPTION
Y01	EP57X4	Rectifier

COILS

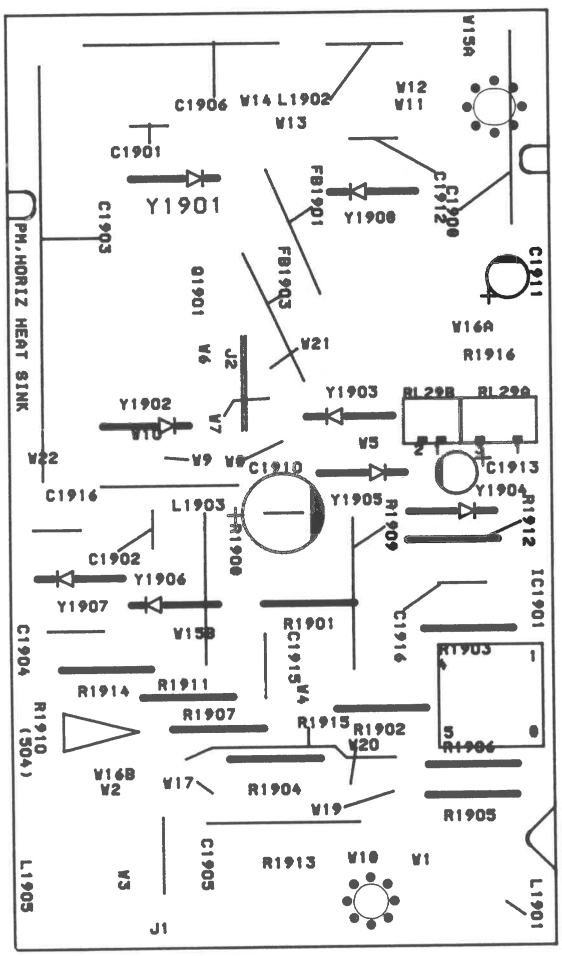
REF. NO.	PART NO.	DESCRIPTION
RY1	EP41X149	RELAY-RF
RY2	EP41X149	RELAY-RF

MISCELLANEOUS

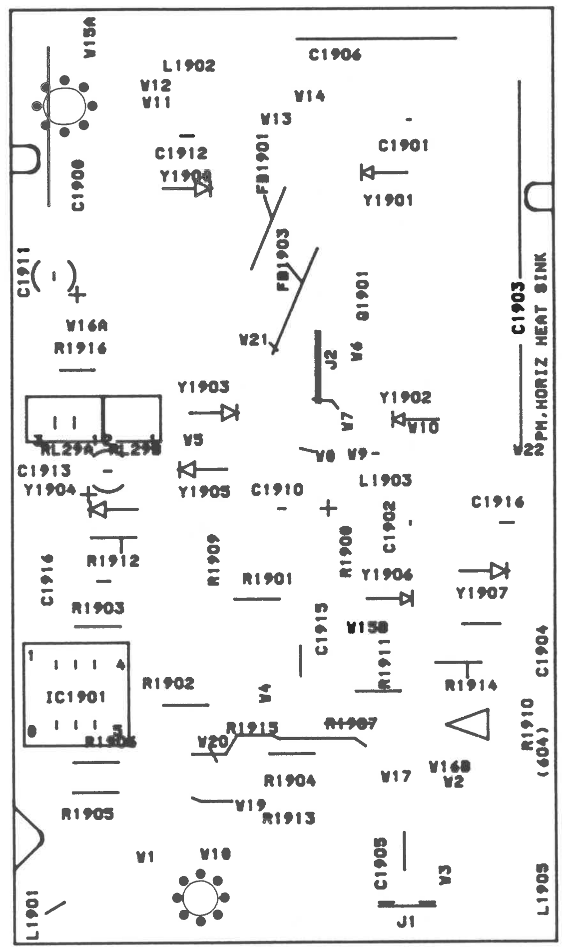
PART NO.	DESCRIPTION
EP93X540	RELAY CIRCUIT BOARD-Bare

HORIZONTAL HEAT SINK CIRCUIT BOARD LAYOUT

(PM-D CHASSIS)



COMPONENT SIDE



COPPER SIDE

(19")

HORIZ HEAT SINK CIRCUIT BOARD

EP93X523

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
★C1901	ES18X13	330pf, 20%, 2KV, Cer. Disc
★C1903	EP25X145	.011μf, 5%, 1.5KV, Polyproplyene
★C1904	EP25X152	.1μf, 10%, 200V Polyproplyene
C1905	EP25X106	.39μf, 10%, 400V, Polyester
C1907	EP18X217	330pf, 20%, 500V, Cer. Disc
C1909	EP25X151	2700pf, 10%, 100V, Mylar
C1915	EP25X151	2700pf, 10%, 200V, Mylar

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R1901	EP14X297	170 ohm, 10%, 7W, Wirewound
R1907	EP14X187	100 ohm, 5%, 1/2W, Carbon
R1911	EP14X128	330 ohm, 5%, 1/2W, Carbon

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
R1903	EP49X160	HORIZ CENTERING-500 ohm, 10%

TRANSISTOR

REF. NO.	PART NO.	DESCRIPTION
Q1901	EP15X218	HORIZ OUTPUT-NPN, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y1903	EP57X5	Rectifier, 400V
Y1905	EP57X5	Rectifier, 400V
Y1907	EP57X5	Rectifier, 400V

COILS & TRANSFORMER

REF. NO.	PART NO.	DESCRIPTION
★L1901	EP36X487	COIL-Width
L1903	EP36X450	CHOKE-2.5μh, 10%
★L1905	EP36X453	COIL-Linearity

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
	EU3X532	CLIP-Ground
RL10	EP8X90	CONNECTOR-3 Pos.
RL12	EP8X30	CONNECTOR-1 Pin
RL20	EP8X92	CONNECTOR-10 Pos.
FB1901	EP12X2	BEAD-Shield
FB1903	EP12X2	BEAD-Shield
	EP3X52	SPACER-Q1901

(26")

HORIZ HEAT SINK CIRCUIT BOARD

EP93X426

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
★C1901	ES18X13	330pf, 20%, 2KV, Cer. Disc
★C1903	EP25X177	.015μf, 5%, 1.5KV, Polyproplyene
★C1904	EP25X159	.15μf, 10%, 200V Polyproplyene
C1905	EP25X91	.47μf, 10%, 400V, Polyester
C1907	EP18X217	330pf, 20%, 500V, Cer. Disc
C1909	EP25X151	2700pf, 10%, 100V, Mylar
C1915	EP25X151	2700pf, 10%, 200V, Mylar

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R1901	EP14X297	170 ohm, 10%, 7W, Wirewound
R1907	EP14X187	100 ohm, 5%, 1/2W, Carbon
R1911	EP14X128	330 ohm, 5%, 1/2W, Carbon

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
R1903	EP49X160	HORIZ CENTERING-500 ohm, 10%

TRANSISTOR

REF. NO.	PART NO.	DESCRIPTION
Q1901	EP15X218	HORIZ OUTPUT-NPN, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y1903	EP57X5	Rectifier, 400V
Y1905	EP57X5	Rectifier, 400V
Y1907	EP57X5	Rectifier, 400V

COILS & TRANSFORMER

REF. NO.	PART NO.	DESCRIPTION
★L1901	EP36X470	COIL-Width
L1903	EP36X450	CHOKE-2.5μh, 10%
★L1905	EP36X472	COIL-Linearity
★T1901	EP36X448	COIL-Pincushion Asm.

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
RL10	EP8X90	CONNECTOR-3 Pos.
RL12	EP8X30	CONNECTOR-1 Pin
RL20	EP8X92	CONNECTOR-10 Pos.
FB1901	EP12X2	BEAD-Shield
FB1903	EP12X2	BEAD-Shield
	EP3X52	SPACER-Q1901

IMPORTANT SAFETY NOTICE

Product safety should be considered when component replacement is made in any area of a receiver. The (★) beside a part in the parts list and the shaded areas of the schematic diagram designates components in which safety can be of special significance. It is particularly recommended that exact cataloged parts be used for replacement of components which are designated by a (★) in the parts list and the shaded areas on the schematic diagram. Use of substitute replacement parts which do not have the same safety characteristics as recommended in factory service information may create Shock, Fire or other hazards, or excessive X-Radiation.

STEREO AMPLIFIER CIRCUIT BOARD

EP93X512 (19″)
EP93X636 (26″)

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
AC201	EP31X173	2.2μf, 20%, 50V, Elect.
AC202	EP31X163	47μf, 20%, 25V, Elect.
AC203	EP31X149	10μf, 20%, 35V, Elect.
AC204	EP25X77	.1μf, 20%, 50V, Polyester
AC205	EP25X95	.22μf, 10%, 50V, Polyester
AC206	EP31X111	2200μf, 20%, 35V, Elect.
AC211	EP31X173	2.2μf, 20%, 50V, Elect.
AC212	EP31X163	47μf, 20%, 25V, Elect.
AC213	EP31X149	10μf, 20%, 35V, Elect.
AC215	EP25X95	.22μf, 10%, 50V, Polyester
AC216	EP31X111	2200pf, 20%, 35V, Elect.
AC217	EP31X182	1000μf, 20%, 50V, Elect.
AC218	EP31X182	1000μf, 20%, 50V, Elect.
AC219	EP31X182	1000μf, 20%, 50V, Elect.
AC221	EP31X166	1μf, 20%, 50V, Elect.
AC222	EP31X166	1μf, 20%, 50V, Elect.
AC225	EP18X81	1000pf, 10%, 1KV, Cer. Disc
AC226	EP18X81	1000pf, 10%, 1KV, Cer. Disc
AC230	EP31X103	1000μf, +100-10%, 40V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
AR200	EP14X103	10K ohm, 5%, 1/4W, Carbon
AR201	EP14X103	10K ohm, 5%, 1/4W, Carbon
AR202	EP14X103	10K ohm, 5%, 1/4W, Carbon
AR203	ES14X64	2K ohm, 5%, 1/4W, Carbon
AR204	EP14X104	22K ohm, 5%, 1/4W, Carbon
AR205	ES14X79	1 ohm, 5%, 1/2W, Carbon
AR206	EP14X445	220 ohm, 5%, 1/2W, Carbon
AR208	ES14X64	2K ohm, 5%, 1/4W, Carbon
AR208	ES14X60	680 ohm, 5%, l/4W, Carbon(26")
AR210	EP14X103	10K ohm, 5%, 1/4W, Carbon
AR211	EP14X103	10K ohm, 5%, 1/4W, Carbon
AR212	EP14X103	10K ohm, 5%, 1/4W, Carbon
AR213	ES14X64	2K ohm, 5%, 1/4W, Carbon
AR214	EP14X104	22K ohm, 5%, 1/4W, Carbon
AR215	ES14X79	1 ohm, 5%, 1/2W, Carbon
AR216	EP14X445	220 ohm, 5%, 1/2W, Carbon
AR217	EP14X475	1 ohm, 5%, 2W, Metal Oxide
AR218	ES14X64	2K ohm, 5%, 1/4W, Carbon
AR218	ES14X60	680 ohm, 5%, l/4W, Carbon(26")
AR230	EP14X369	12 ohm, 5%, 1/4W, Carbon

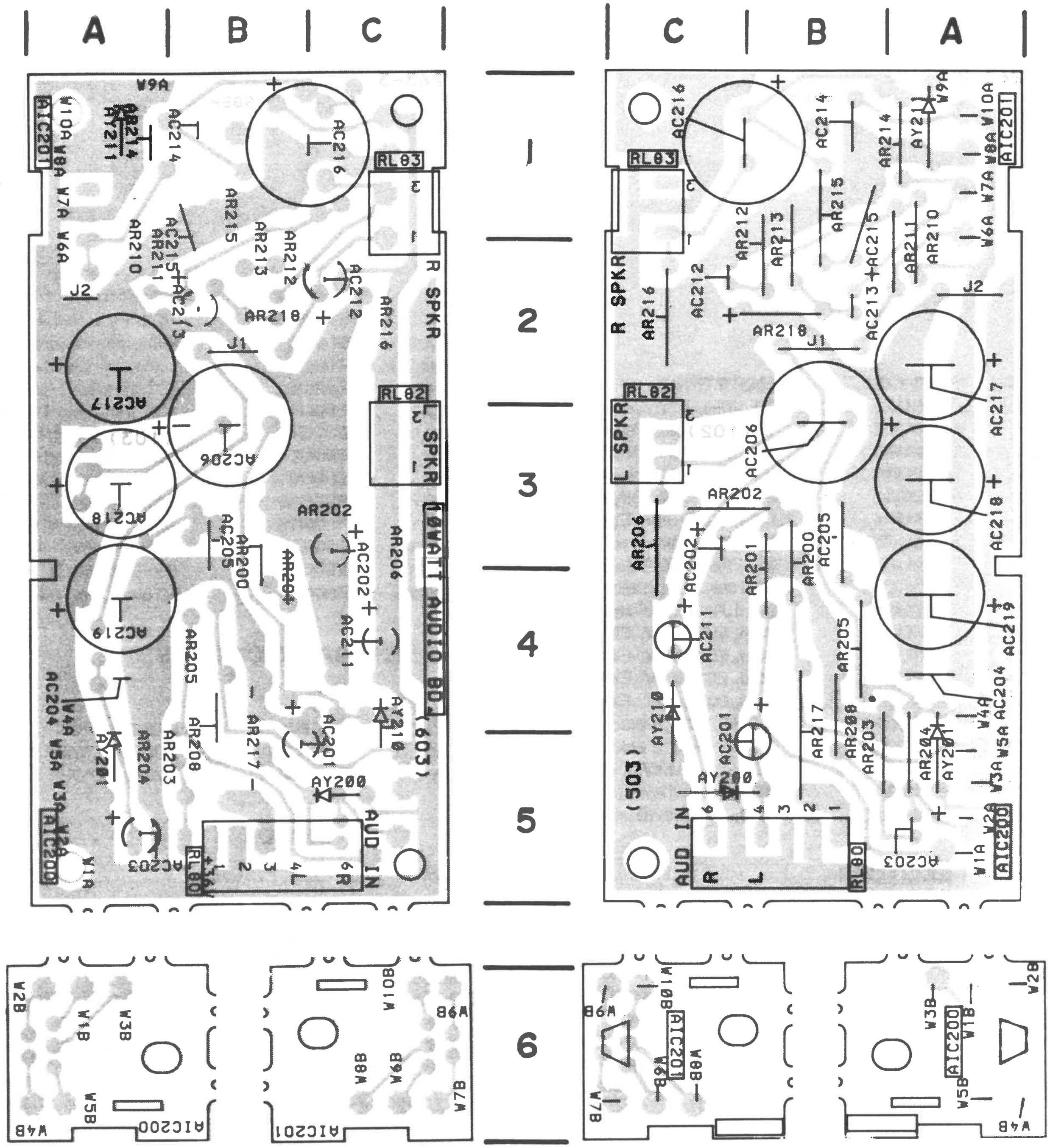
INTEGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
IC200	EP84X109	AUDIO POWER AMP
IC201	EP84X109	AUDIO POWER AMP

DIODES

REF. NO.	PART NO.	DESCRIPTION
AY200	EP16X58	Zener, 17V
AY201	EP16X148	Zener, 36V
AY210	EP16X58	Zener, 17V
AY211	EP16X148	Zener, 36V
AY212	EP57X4	Rectifier
AY213	EP57X4	Rectifier

STEREO AMPLIFIER CIRCUIT BOARD LAYOUT (PM-D CHASSIS)



COPPER SIDE *COMPONENT SIDE*

RESISTORS
- AR200-B3
- AR201-B3
- AR202-C3
- AR203-B5
- AR204-A5
- AR205-B4
- AR206-C3
- AR208-B5
- AR210-A1
- AR211-A1
- AR212-B1
- AR213-B2
- AR214-A1
- AR215-B1
- AR216-C2
- AR217-B5
- AR218-B2

CAPACITORS
- AC201-C5
- AC202-C3
- AC203-A5
- AC204-A4
- AC205-B3
- AC206-B3
- AC211-C4
- AC212-C2
- AC213-B2
- AC214-B1
- AC215-B2
- AC216-C1
- AC217-A2
- AC218-A3
- AC219-A4

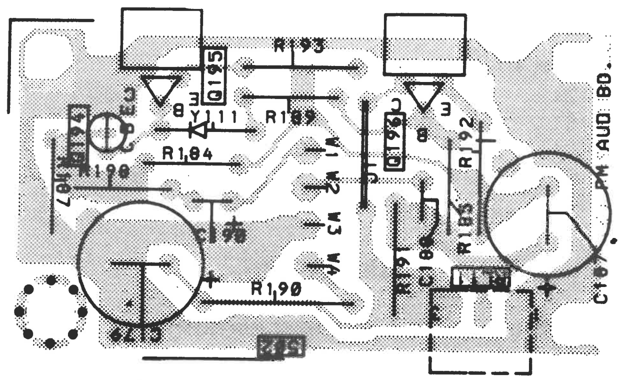
DIODES
- AY200-C5
- AY201-A5
- AY210-C4
- AY211-A1

RECEPTACLES
- RL80-B5
- RI82-C2
- RL83-C1

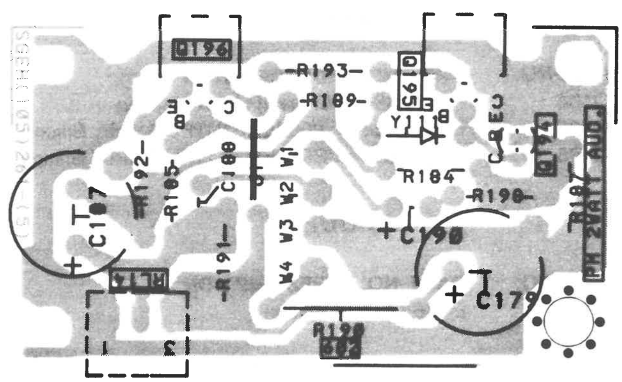
JUMPERS
- J1-B2
- J2-A2

INTEGRATED CIRCUITS
- AIC200-A6
- AIC201-A1
- AIC201-C6

2 WATT AUDIO CIRCUIT BOARD LAYOUT
EP93X626 (PM-D CHASSIS)



COMPONENT SIDE



COPPER SIDE

2 WATT AUDIO CIRCUIT BOARD

EP93X626

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C179	EP31X177	470µf, 20%, 50V, Elect.
C187	EP31X177	470µf, 20%, 50V, Elect.
C188	EP25X171	.033µf, 10%, 50V, Polyester
C189	EP25X63	.082µf, 10%, 50V, Polyester
C190	EP31X149	10µf, 20%, 35V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R184	EP14X479	68K ohm, 2%, l/8W, Carbon
R185	EP14X364	1K ohm, 2%, l/2W, Carbon
R187	EP14X478	3.6K ohm, 2%, l/8W, Carbon
R189	EP14X434	39 ohm, 5%, l/4W, Carbon
★R190	EP14X342	39 ohm, 5%, 3W, Flame Proof
R191	ES14X58	470 ohm, 5%, 1/2W, Carbon
R192	ES14X80	2.2 ohm, 5%, 1/2W, Carbon
R193	ES14X80	2.2 ohm, 5%, 1/2W, Carbon
R198	ES14X65	4.7K ohm, 5%, l/4W, Carbon

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q194	EP15X88	DRIVER-NPN, Silicon
Q195	EP15X222	POWER OUTPUT-PNP, Silicon
Q196	EP15X221	POWER OUTPUT-NPN, Silicon

DIODE

REF. NO.	PART NO.	DESCRIPTION
Y111	ES16X27	Silicon

IMPORTANT SAFETY NOTICE

Product safety should be considered when component replacement is made in any area of a receiver. The (★) beside a part in the parts list and the shaded areas of the schematic diagram designates components in which safety can be of special significance. It is particularly recommended that exact cataloged parts be used for replacement of components which are designated by a (★) in the parts list and the shaded areas on the schematic diagram.

Use of substitute replacement parts which do not have the same safety characteristics as recommended in factory service information may create Shock, Fire or other hazards, or excessive X-Radiation.

GENERAL ELECTRIC

TELEVISION

SERVICE INFORMATION

TELEVISION
PM CHASSIS

SECTION 7
MAIN CHASSIS &
OPTIONAL FEATURES
SCHEMATICS
PARTS LISTS

Section 7 Index

19" and 25" PM—A/B CHASSIS REPLACEMENT PARTS LIST

IMPORTANT SAFETY NOTICE

Product safety should be considered when component replacement is made in any area of a receiver. The (★) beside a part in the parts list and the shaded areas of the schematic diagram designates components in which safety can be of special significance. It is particularly recommended that exact cataloged parts be used for replacement of components which are designated by a (★) in the parts list and the shaded areas on the schematic diagram. Use of substitute replacement parts which do not have the same safety characteristics as recommended in factory service information may create Shock, Fire or other hazards, or excessive X-Radiation.

19" PM-A/B CHASSIS

CIRCUIT BOARD ASSEMBLIES

PART NO.	DESCRIPTION
EP93X439	AUDIO CIRCUIT BOARD (2 Watt Units)
EP93X436	AUDIO/VIDEO CIRCUIT BOARD (10 Watt Units)
EP93X435	COMB FILTER CIRCUIT BOARD
EP93X437	DUAL 10 WATT AUDIO CIRCUIT BOARD (10 Watt & 5 Watt Units)
EP93X425	HORIZ HEAT SINK CIRCUIT BOARD
EP93X430	POWER SUPPLY CIRCUIT BOARD (2 Watt Units)
EP93X431	POWER SUPPLY CIRCUIT BOARD (10 Watt Units)
EP93X432	RGB CIRCUIT BOARD
EP93X427	SIGNAL CIRCUIT BOARD
EP93X428	SWEEP CIRCUIT BOARD
EP93X462	VIR CIRCUIT BOARD

CHASSIS

PARTS NOT ON CIRCUIT BOARDS

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
★C940	EP25X184	4700pf, 20%, 125VAC, Polyester
★C941	EP25X184	4700pf, 20%, 125VAC, Polyester
C4000	EP31X106	3.3μf, 20%, 25V, Bi Polar, Elect.
C4001	EP31X106	3.3μf, 20%, 25V, Bi Polar, Elect.
C4002	EP22X32	.01μf, 20%, 500V, Hik, Cer. Disc
C5001	EP31X70	1000μf, +100-10%, 40V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
AR230	Common	12 ohm, 5%, 1/2W, Metal Oxide
★R929	EP14X365	1.8 meg ohm, 10%, 1/2W, Carbon
★R930	EP14X365	1.8 meg ohm, 10%, 1/2W, Carbon
R4000	Common	300 ohm, 5%, 1/2W, Carbon
R4001	ES14X59	560 ohm, 5%, 1/2W, Carbon
R4002	ES14X59	560 ohm, 5%, 1/2W, Carbon
R4010	Common	2K ohm, 5%, l/4W, Carbon
R4200	ES14X61	820 ohm, 5%, l/4W, Carbon
R5001	EP14X103	10K ohm, 5%, 1/2W, Carbon
R5002	EP14X338	20K ohm, 5%, 1/2W, Carbon (2 Watt)
R5002	EP14X103	10K ohm, 5%, 1/2W, Carbon (10 Watt)
R5003	EP14X103	10K ohm, 5%, 1/2W, Carbon
R5004	EP14X103	10K ohm, 5%, 1/2W, Carbon
R5005	Common	82 ohm, 5%, 1/2W, Carbon
R5010	Common	3K ohm, 5%, l/4W, Carbon
R5020	EP14X295	910 ohm, 5%, 1/2W, Carbon
R5021	ES14X67	100 ohm, 5%, 1/2W, Carbon
R5022	EP14X295	910 ohm, 5%, 1/2W, Carbon
R5023	ES14X67	100 ohm, 5%, 1/2W, Carbon

POTENTIOMETERS

REF. NO.	PART NO.	DESCRIPTION
R5010	EP49X488	AUDIO-50K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%

DIODES

REF. NO.	PART NO.	DESCRIPTION
AY212	EP57X4	Rectifier, Silicon
AY213	EP57X4	Rectifier, Silicon

COILS & TRANSFORMER

REF. NO.	PART NO.	DESCRIPTION
	EP36X462	COIL-Degaussing
	EP42X8	CONVERGENCE ASM.
	EP76X30	YOKE ASM
L50	ES36X82	CHOKE-220μh, 10%
L5000	EP36X471	CHOKE-.33μh, 20%, (10 Watt)

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
	EP2X548	ANODE RETAINER-Clip
	EP92X116	BRACKET-Chassis Frame, Front, Plastic
	EP92X117	BRACKET-Chassis Frame, Rear, Plastic
	EP92X119	BRACKET-Sound Plus & Audio/Video Board Mounting, Plastic
	EP2X542	BRACKET-VIR Board Support, Plastic (2 Used)
	EP92X118	BRACKET-Rear Circuit Board Mounting, Plastic
	EP8X108	CABLE-7" Antenna To Tuner, W/Phono Plug And Screw Connector

(CONTINUED)

19" PM-A/B Parts List (Cont.)

Ref.	Part No.	Description
	EP8X97	CABLE-11" W/2 Phono Plugs UHF/VHF To Tuner Control Board
	EP8X103	CABLE-20" Long W/2 Phono Plugs
	ES3X29	CLIP-Antenna Terminal
	EP2X545	CLIP-Chassis Mounting (2 Used)
	EP2X540	CLIP-Power Cord Retainer
RL1	EP8X67	CONNECTOR-4 Pos.
RL2	EP8X90	CONNECTOR-5 Pos.
RL3	EP8X84	CONNECTOR-6 Pos.
RL5	EP8X44	CONNECTOR-6 Pins
RL6	EP8X66	CONNECTOR-7 Pos.
RL7	EP8X68	CONNECTOR-2 Pos.
PG12	EP8X30	CONNECTOR-1 Pin
RL14	EP8X65	CONNECTOR-3 Pos.
RL17	EP8X90	CONNECTOR-5 Pos.
RL22	EP8X91	CONNECTOR-9 Pos.
RL23	EP8X68	CONNECTOR-2 Pos.
PG24	EP8X43	CONNECTOR-2 Pins
RL28	EP8X42	CONNECTOR-4 Pins
RL31	EP8X90	CONNECTOR-5 Pos.
PG32	EP8X43	CONNECTOR-2 Pins
RL33	EP8X30	CONNECTOR-1 Pin
RL52	EP8X90	CONNECTOR-3 Pos.
RL53	EP8X66	CONNECTOR-7 Pos.
PG57/ RL57	EP8X43	CONNECTOR-2 Pins
RL57	EP8X44	CONNECTOR-6 Pos.
RL59	EP8X43	CONNECTOR-2 Pins
RL62	EP8X66	CONNECTOR-7 Pos.
RL64	EP8X94	CONNECTOR-4 Pos.
RL68	EP8X67	CONNECTOR-4 Pos.
RL72	EP8X92	CONNECTOR-10 Pos.
RL73	EP8X90	CONNECTOR-5 Pos.
RL74	EP8X94	CONNECTOR-4 Pos.
RL78	EP8X90	CONNECTOR-3 Pins
RL79	EP8X94	CONNECTOR-4 Pos.
RL80	EP8X71	CONNECTOR-6 Pos.
PG81	EP8X30	CONNECTOR-1 Pin
RL82	EP8X65	CONNECTOR-3 Pos.
RL83	EP8X65	CONNECTOR-3 Pos.
PG84	EP8X30	CONNECTOR-1 Pin
RL85/ PG85	EP8X44	CONNECTOR-6 Pins
PG100/ RL100	EP8X44	CONNECTOR-6 Pins
PG101	EP8X88	CONNECTOR-5 Pins
RL212	EP8X92	CONNECTOR-8 Pos.
RL225	EP8X43	CONNECTOR-2 Pins
RL244	EP8X91	CONNECTOR-9 Pos.
PG250/ RL250	EP8X43	CONNECTOR-2 Pins
RL251	EP8X92	CONNECTOR-8 Pos.
	EP66X19	CORD-AC Power, Polarized
	EP2X577	COVER-Power Supply Board, Plastic
	EP3X53	CUSHION-Yoke Wedge (3 Used)
	EP3X54	CUSHION-Switch Pads, Foam
	EP2X580	GUIDE-For Screen Control (Plastic Tube)
	EP2X573	HINGES-For Servicing Top Rear Boards, Right & Left, Plastic
J4000	EP8X128	JACK-Telephone Type
J5001	EP8X127	JACK-Video 1, Phono Type
J5002	EP8X127	JACK-Audio Left, Phono Type
J5003	EP8X127	JACK-Audio Right, Phono Type
J5004	EP8X127	JACK-Video 2, Phono Type
J5005	EP8X127	JACK-Audio Left, Phono Type
J5006	EP8X127	JACK-Audio Right, Phono Type
J5007	EP8X127	JACK-Video Out, Phono Type
J5008	EP8X127	JACK-Fix Audio Out Left, Phono Type
J5009	EP8X127	JACK-Fix Audio Out Right, Phono Type
J5015/ J5016	EP8X127	JACK-External Amplifiers, Phono Type
J5102	EP8X127	JACK-Stereo IF Input, Phono Type
J5200/ J5201	EP8X119	JACK-External Speakers, Telephone Type
	EP2X590	RETAINER-Cord Holder, Plastic
	EP2X581	RETAINER-CRT Ground Hook, Lexan (2 Used)
	EP2X578	RETAINER-Circuit Board Hold Down, Lexan
	EP2X579	RETAINER-Circuit Board Hold Down Dual, Plastic
	EP69X33	SHAFT-Extention For Focus, Plastic
J5100	EP34X70	SOCKET-External Stereo, 8-Pins
	EP2X534	SPRING-CRT Ground
S5300	EP39X204	SWITCH-On/Off External Amplifiers, Slide Type, DPDT
SW5008	EP39X146	SWITCH-Cable Select, Slide Type
	EP3X54	SWITCH PADS-Foam (MP130)
	EP3X38	WASHER-Spacer
	EP90X3	WIRE TIE

25" PM–A/B CHASSIS

CIRCUIT BOARD ASSEMBLIES

REF. NO.	PART NO.	DESCRIPTION
	EP93X439	AUDIO CIRCUIT BOARD (2 Watt Units)
	EP93X436	AUDIO/VIDEO CIRCUIT BOARD (10 Watt Units)
	EP93X435	COMB FILTER CIRCUIT BOARD
	EP93X437	DUAL 10 WATT AUDIO CIRCUIT BOARD (10 Watt & 5 Watt Units)
	EP93X426	HORIZ HEAT SINK CIRCUIT BOARD
	EP93X430	POWER SUPPLY CIRCUIT BOARD (2 Watt Units)
	EP93X431	POWER SUPPLY CIRCUIT BOARD (10 Watt Units)
	EP93X433	RGB CIRCUIT BOARD
	EP93X427	SIGNAL CIRCUIT BOARD
	EP93X429	SWEEP CIRCUIT BOARD
	EP93X489	TOP TUNING CIRCUIT BOARD
	EP93X462	VIR CIRCUIT BOARD

CHASSIS

PARTS NOT ON CIRCUIT BOARDS

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
★C940	EP25X184	4700pf, 20%, 125VAC, Polyester
★C941	EP25X184	4700pf, 20%, 125VAC, Polyester
C4000	EP31X106	3.3μf, 20%, 25V, Bi Polar, Elect.
C4001	EP31X106	3.3μf, 20%, 25V, Bi Polar, Elect.
C4002	EP22X32	.01μf, 20%, 500V, HiK, Cer. Disc
C5001	EP31X70	1000μf, +100-10%, 40V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
AR230	EP14X369	12 ohm, 5%, 1/2W, Metal Oxide
★R929	EP14X365	1.8 meg ohm, 10%, 1/2W, Carbon
★R930	EP14X365	1.8 meg ohm, 10%, 1/2W, Carbon
R4000	Common	300 ohm, 5%, 1/2W, Carbon
R4001	ES14X59	560 ohm, 5%, 1/2W, Metal Oxide
R4002	ES14X59	560 ohm, 5%, 1/2W, Metal Oxide
R4010	Common	3K ohm, 5%, l/4W, Carbon
R4200	ES14X61	820 ohm, 5%, l/4W, Carbon
R5001	EP14X103	10K ohm, 5%, 1/2W, Carbon
R5002	EP14X338	20K ohm, 5%, 1/2W, Carbon (2 Watt)
R5002	EP14X103	10K ohm, 5%, 1/2W, Carbon (10 Watt)
R5003	EP14X103	10K ohm, 5%, 1/2W, Carbon
R5004	EP14X103	10K ohm, 5%, 1/2W, Carbon
R5005	Common	82 ohm, 5%, 1/2W, Carbon
R5010	Common	2K ohm, 5%, l/4W, Carbon
R5020	EP14X295	910 ohm, 5%, 1/2W, Carbon
R5021	ES14X67	100 ohm, 5%, 1/2W, Carbon
R5022	EP14X295	910 ohm, 5%, 1/2W, Carbon
R5023	ES14X67	100 ohm, 5%, 1/2W, Carbon

POTENTIOMETERS

REF. NO.	PART NO.	DESCRIPTION
R5010	EP49X488	AUDIO-50K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%

DIODES

REF. NO.	PART NO.	DESCRIPTION
AY212	EP57X4	Rectifier, Silicon
AY213	EP57X4	Rectifier, Silicon

COILS & TRANSFORMER

REF. NO.	PART NO.	DESCRIPTION
	EP36X469	COIL-Degaussing (2 Used)
	EP42X8	CONVERGENCE ASM.
	EP76X33	YOKE ASM
L50	ES36X82	CHOKE-220uh, 10%
L5000	EP36X471	CHOKE-.33uh, 20% (10 Watt)

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
	EP2X594	BRACKET-CRT Cornor Mounting, Metal
	EP92X116	BRACKET-Chassis Frame, Front, Plastic
	EP92X117	BRACKET-Chassis Frame, Rear, Plastic
	EP92X120	BRACKET-Audio/Video, Tuner Control Board Mounting, Plastic (10 Watt)
	EP92X121	BRACKET-Audio/Video, Tuner Control Board Mounting, Plastic (25PM4880K Only)
	EP2X542	BRACKET-VIR Board Support, Plastic (2 Used)
	EP2X600	BRACKET-Ultra Vision Window Brace, Plastic (6 Used)
	EP8X108	CABLE-7" Antenna To Tuner, W/Phono Plug And Screw Connector
	EP8X96	CABLE-15" Antenna To Tuner, W/Phono Plug And Screw Connector
	EP8X97	CABLE-UHF/VHF To Tuner Control Board, 13" W/2 Phono Plugs

(CONTINUED)

25" PM Chassis Parts List (Cont.)

	EP8X102	CABLE-UHF/VHF To Tuner Control Board, 20" W/2 Phono Plugs
	EP2X548	CLIP-Anode Retainer
	ES3X29	CLIP-Antenna Terminal
	EP2X540	CLIP-Power Cord Retainer
RL1	EP8X67	CONNECTOR-4 Pos.
RL2	EP8X90	CONNECTOR-5 Pos.
RL3	EP8X84	CONNECTOR-6 Pos.
PG5	EP8X66	CONNECTOR-7 Pos.
PG5	EP8X44	CONNECTOR-6 Pos. (10 Watt)
RL6	EP8X66	CONNECTOR-7 Pos.
RL7	EP8X68	CONNECTOR-2 Pins
RL7A	EP8X68	CONNECTOR-2 Pins
PG12	EP8X30	CONNECTOR-1 Pin
RL14	EP8X65	CONNECTOR-3 Pos.
RL17	EP8X90	CONNECTOR-5 Pos.
RL22	EP8X91	CONNECTOR-9 Pos.
RL23	EP8X68	CONNECTOR-2 Pos.
PG24	EP8X43	CONNECTOR-2 Pins
RL28	EP8X42	CONNECTOR-4 Pins
RL31	EP8X90	CONNECTOR-5 Pos.
PG32	EP8X43	CONNECTOR-2 Pins
PG33	EP8X30	CONNECTOR-1 Pin
RL50	EP8X90	CONNECTOR-5 Pos.
PG51	EP8X43	CONNECTOR-2 Pins
RL53	EP8X44	CONNECTOR-6 Pins
RL62	EP8X66	CONNECTOR-7 Pos.
RL64	EP8X94	CONNECTOR-4 Pos.
RL68	EP8X67	CONNECTOR-4 Pos.
RL72	EP8X92	CONNECTOR-10 Pos.
RL73	EP8X90	CONNECTOR-3 Pos.
RL74	EP8X94	CONNECTOR-4 Pos.
RL78	EP8X90	CONNECTOR-3 Pos.
RL79	EP8X94	CONNECTOR-4 Pos.
RL80	EP8X71	CONNECTOR-6 Pos.
PG81/RL81	EP8X30	CONNECTOR-1 Pin
RL82	EP8X65	CONNECTOR-3 Pos.
RL83	EP8X65	CONNECTOR-3 Pos.
PG84/RL84	EP8X30	CONNECTOR-1 Pin
RL85	EP8X44	CONNECTOR-6 Pins
RL/PG100	EP8X44	CONNECTOR-6 Pins
RL244B	EP8X91	CONNECTOR-9 Pos.
RL/PG250	EP8X43	CONNECTOR-2 Pins
	EP66X19	CORD-AC Power, Polarized
	EP2X577	COVER-Power Supply Board, Plastic
	EP3X53	CUSHION-Yoke Wedge
	EP2X580	GUIDE-For Screen Control (Plastic Tube)
	EP2X592	GUIDE-For Ultra-Vision Window, Plastic
J4000	EP8X128	JACK-Headphone
J5001	EP8X127	JACK-Video I, Phono Type
J5002	EP8X127	JACK-Audio Left, Phono Type
J5003	EP8X127	JACK-Audio Right, Phono Type
J5004	EP8X127	JACK-Video II, Phono Type
J5005	EP8X127	JACK-Audio Left, Phono Type
J5006	EP8X127	JACK-Audio Right, Phono Type
J5007	EP8X127	JACK-Video Out, Phono Type
J5008	EP8X127	JACK-Fix Audio Out Left, Phono Type
J5009	EP8X127	JACK-Fix Audio Out Right, Phono Type
J5015/ J5016	EP8X127	JACK-External Amplifiers, Phono Type
J5102	EP8X127	JACK-Stereo IF Input, Phono Type
J5200/ J5201	EP8X119	JACK-External Speakers, Telephone Type
	EP2X578	RETAINER-Circuit Board Hold Down, Lexan (2 Used)
	EP2X579	RETAINER-Circuit Board Hold Down Dual, Plastic (1 Used)
	EP2X590	RETAINER-Power Cord Holder, Plastic
	EP69X33	SHAFT-Extention For Focus, Plastic
J5100	EP34X70	SOCKET-External Stereo, 8-Pins
	EP3X56	SPRING-CRT Ground
SW5000	ES39X21	SWITCH-Mono/Stereo (Video I)
SW5001	ES39X21	SWITCH-Mono/Stereo (Video II)
SW5008	39X146	SWITCH-Cable Select, Slide Type
SW5300	39X204	SWITCH-On/Off External Amplifiers, Slide Type, DPDT
	3X54	SWITCH PADS-Foam (MP130)
	3X38	WASHER-Spacer
	90X3	WIRE TIE

19" and 25" PM-A/B Parts List (Cont.)

PM-A/B

AUDIO CIRCUIT BOARD

EP93X439

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C179	EP31X177	470uf, 20%, 50V, Elect.
C187	EP31X177	470uf, 20%, 50V, Elect.
C188	EP25X171	.033uf, 10%, 50V, Polyester
C190	EP31X149	10uf, 20%, 35V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R184	EP14X345	68K ohm, 2%, l/8W, Carbon
R185	EP14X364	1K ohm, 2%, l/2W, Carbon
R187	Common	3.6K ohm, 2%, l/8W, Carbon
R189	EP14X344	39 ohm, 2%, l/8W, Carbon
★R190	EP14X342	39 ohm, 10%, 3W, Flame Proof
R191	14X58	470 ohm, 5%, 1/2W, Carbon
R192	14X80	2.2 ohm, 5%, 1/2W, Carbon
R193	14X80	2.2 ohm, 5%, 1/2W, Carbon
R198	14X65	4.7K ohm, 5%, l/4W, Carbon

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q194	EP15X88	DRIVER-NPN, Silicon
Q195	EP15X222	POWER OUTPUT-PNP, Silicon
Q196	EP15X221	POWER OUTPUT-NPN, Silicon

DIODE

REF. NO.	PART NO.	DESCRIPTION
Y111	16X27	Silicon

AUDIO/VIDEO CIRCUIT BOARD

EP93X436

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
AC01	EU18X9	39pf, 5%, 50V, Cer. Disc
AC02	EP31X166	1μf, 20%, 50V, Elect.
AC04	EU18X9	39pf, 5%, 50V, Cer. Disc
AC05	EP31X166	1μf, 20%, 50V, Elect.
AC06	EU18X9	39pf, 5%, 50V, Cer. Disc
AC07	EP31X166	1μf, 20%, 50V, Elect.
AC10	EU18X9	39pf, 5%, 50V, Cer. Disc
AC11	EP31X166	1μf, 20%, 50V, Elect.
AC12	EU18X9	39pf, 5%, 50V, Cer. Disc
AC13	EP31X166	1μf, 20%, 50V, Elect.
AC14	EU18X9	39pf, 5%, 50V, Cer. Disc
AC15	EP31X166	1μf, 20%, 50V, Elect.
AC16	EP31X162	100μf, 20%, 25V, Elect.
AC19	EP31X172	.47μf, 20%, 50V, Elect.
AC20	EP18X118	.1μf, +30-80%, 25V, HiK, Cer. Disc
AC21	EP18X118	.1μf, +30-80%, 25V, HiK, Cer. Disc
AC22	EP18X118	.1μf, +30-80%, 25V, HiK, Cer. Disc
AC23	EP18X206	.022μf, 30%, 25V, HiK, Cer. Disc
AC24	EP18X206	.022μf, 30%, 25V, HiK, Cer. Disc
AC25	EP18X206	.022μf, 30%, 25V, HiK, Cer. Disc
AC26	EP18X206	.022μf, 30%, 25V, HiK, Cer. Disc
AC27	EP18X206	.022μf, 30%, 25V, HiK, Cer. Disc
AC28	EP18X206	.022μf, 30%, 25V, HiK, Cer. Disc
AC29	EP18X206	.022μf, 30%, 25V, HiK, Cer. Disc
AC30	EP18X206	.022μf, 30%, 25V, HiK, Cer. Disc
AC31	EP18X206	.022μf, 30%, 25V, HiK, Cer. Disc
AC32	EP18X206	.022μf, 30%, 25V, HiK, Cer. Disc
AC33	EP18X206	.022μf, 30%, 25V, HiK, Cer. Disc
AC34	EP18X206	.022μf, 30%, 25V, HiK, Cer. Disc
AC35	EP18X206	.022μf, 30%, 25V, HiK, Cer. Disc
AC36	EP18X206	.022μf, 30%, 25V, HiK, Cer. Disc
AC39	EP31X149	10μf, 20%, 35V, Elect.
AC40	EP31X149	10μf, 20%, 35V, Elect.
AC41	EP25X77	.1μf, 10%, 50V, Polyester
AC44	EP31X170	4.7μf, 20%, 35V, Elect.
AC45	EP31X170	4.7μf, 20%, 35V, Elect.
AC46	EP31X163	47μf, 20%, 16V, Elect.
AC47	EP25X168	.12μf, 10%, 50V, Polyester
AC48	EP25X165	4700pf, 10%, 50V, Polyester
AC49	EP25X165	4700pf, 10%, 50V, Polyester
AC50	EP25X168	.12μf, 10%, 50V, Polyester
AC53	EP31X162	100μf, 20%, 25V, Elect.
AC54	EP31X163	47μf, 20%, 16V, Elect.
AC55	EP31X149	10μf, 20%, 35V, Elect.
AC56	EP31X149	10μf, 20%, 35V, Elect.
AC57	EP31X168	220μf, 20%, 6.3V, Elect.
AC58	EP31X149	10μf, 20%, 35V, Elect.
AC59	EP31X149	10μf, 20%, 35V, Elect.
AC60	EP31X168	220μf, 20%, 6.3V, Elect.
AC61	EP31X170	4.7μf, 20%, 35V, Elect.
AC62	EP31X170	4.7μf, 20%, 35V, Elect.
AC63	EP31X170	4.7μf, 20%, 35V, Elect.
AC64	EP31X172	22μf, 20%, 25V, Elect.
AC65	EP31X170	4.7μf, 20%, 35V, Elect.
AC66	EP31X170	4.7μf, 20%, 35V, Elect.
AC67	EP31X170	4.7μf, 20%, 35V, Elect.
AC68	EP31X170	4.7μf, 20%, 35V, Elect.
AC69	EP31X163	47μf, 20%, 16V, Elect.
AC70	EP31X172	22μf, 20%, 25V, Elect.
AC73	EP31X173	2.2μf, 20%, 50V, Elect.
AC74	EP31X149	10μf, 20%, 35V, Elect.
AC75	EP31X162	100μf, 20%, 25V, Elect.
AC76	EP18X118	.1μf, +30-80%, 25V, HiK, Cer. Disc
AC77	EP25X95	.22μf, 10%, 50V, Polyester
AC79	EP18X118	.1μf, +30-80%, 25V, HiK, Cer. Disc
AC80	EP18X118	.1μf, +30-80%, 25V, HiK, Cer. Disc
AC85	EP31X150	10μf, 20%, 50V, Elect.
AC88	EP31X183	4.7μf, +100-10%, 25V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
AR01	EP14X103	10K ohm, 5%, l/4W, Carbon

(CONTINUED)

19" and 25" PM-A/B Parts List (Cont.)

AR02	EP14X288	18K ohm, 5%, I/8W, Carbon
AR03	EP14X133	470K ohm, 5%, I/8W, Carbon
AR04	EP14X103	10K ohm, 5%, I/4W, Carbon
AR05	EP14X288	18K ohm, 5%, I/8W, Carbon
AR06	EP14X133	470K ohm, 5%, I/8W, Carbon
AR09	EP14X381	3K ohm, 5%, I/4W, Carbon
AR10	EP14X288	18K ohm, 5%, I/8W, Carbon
AR11	EP14X133	470K ohm, 5%, I/8W, Carbon
AR12	EP14X381	3K ohm, 5%, I/4W, Carbon
AR13	EP14X288	18K ohm, 5%, I/8W, Carbon
AR14	EP14X133	470K ohm, 5%, I/8W, Carbon
AR17	EP14X103	10K ohm, 5%, I/4W, Carbon
AR18	EP14X103	10K ohm, 5%, I/8W, Carbon
AR19	EP14X133	470K ohm, 5%, I/8W, Carbon
AR20	EP14X103	10K ohm, 5%, I/4W, Carbon
AR21	EP14X103	10K ohm, 5%, I/8W, Carbon
AR22	EP14X133	470K ohm, 5%, I/8W, Carbon
AR23	EP14X180	5.6K ohm, 5%, I/8W, Carbon
AR24	EP14X243	2.2K ohm, 5%, I/8W, Carbon
AR25	Common	270 ohm, 5%, I/8W, Carbon
AR26	EP14X180	5.6K ohm, 5%, I/8W, Carbon
AR27	EP14X385	750 ohm, 5%, I/4W, Carbon
AR30	EP14X125	47K ohm, 5%, I/8W, Carbon
AR32	EP14X125	47K ohm, 5%, I/8W, Carbon
AR33	EP14X180	5.6K ohm, 5%, I/8W, Carbon
AR34	EP14X243	2.2K ohm, 5%, I/8W, Carbon
AR35	Common	270 ohm, 5%, I/8W, Carbon
AR36	EP14X180	5.6K ohm, 5%, I/8W, Carbon
AR37	EP14X385	750 ohm, 5%, I/4W, Carbon
AR40	EP14X180	5.6K ohm, 5%, I/8W, Carbon
AR41	EP14X243	2.2K ohm, 5%, I/8W, Carbon
AR42	Common	270 ohm, 5%, I/8W, Carbon
AR43	EP14X180	5.6K ohm, 5%, I/8W, Carbon
AR44	EP14X385	750 ohm, 5%, I/4W, Carbon
AR45	Common	5.1K ohm, 5%, I/8W, Carbon
AR48	EP14X120	150 ohm, 5%, 1/2W, Carbon
AR49	Common	9.1K ohm, 5%, I/8W, Carbon
AR50	EP14X303	22K ohm, 5%, I/8W, Carbon
AR51	Common	360 ohm, 5%, I/4W, Carbon
AR52	EP14X120	150 ohm, 5%, 1/2W, Carbon
AR53	EP14X122	7.5K ohm, 5%, I/8W, Carbon
AR54	EP14X105	100K ohm, 5%, I/8W, Carbon
AR55	EP14X140	330K ohm, 5%, I/8W, Carbon
AR56	EP14X103	10K ohm, 5%, I/4W, Carbon
AR57	EP14X391	51 ohm, 5%, I/8W, Carbon
AR58	EP14X392	27 ohm, 5%, I/8W, Carbon
AR59	EP14X165	75 ohm, 5%, I/8W, Carbon
AR62	EP14X187	100 ohm, 5%, I/8W, Carbon
AR63	ES14X64	2K ohm, 5%, I/8W, Carbon
AR64	ES14X64	2K ohm, 5%, I/8W, Carbon
AR65	EP14X360	56 ohm, 5%, 2W, Metal Oxide
AR66	EP14X105	100K ohm, 5%, I/8W, Carbon
AR67	EP14X105	100K ohm, 5%, I/8W, Carbon
AR68	ES14X62	1.5K ohm, 5%, I/8W, Carbon
AR69	ES14X62	1.5K ohm, 5%, I/8W, Carbon
AR72	ES14X62	1.5K ohm, 5%, I/8W, Carbon
AR73	EP14X304	2.7K ohm, 5%, I/8W, Carbon
AR74	EP14X183	3.3K ohm, 5%, I/8W, Carbon
AR75	EP14X103	10K ohm, 5%, I/8W, Carbon
AR76	ES14X71	1K ohm, 5%, I/8W, Carbon
AR77	EP14X303	470 ohm, 5%, I/8W, Carbon
AR78	EP14X288	18K ohm, 5%, I/8W, Carbon
AR79	Common	270 ohm, 5%, I/8W, Carbon
AR82	EP14X183	3.3K ohm, 5%, I/8W, Carbon
AR83	EP14X103	10K ohm, 5%, I/8W, Carbon
AR84	ES14X71	1K ohm, 5%, I/8W, Carbon
AR85	EP14X303	470 ohm, 5%, I/8W, Carbon
AR86	EP14X288	18K ohm, 5%, I/8W, Carbon
AR87	Common	270 ohm, 5%, I/8W, Carbon
AR90	EP14X285	15K ohm, 5%, I/4W, Carbon
AR91	EP14X285	15K ohm, 5%, I/4W, Carbon
AR92	EP14X285	15K ohm, 5%, I/4W, Carbon
AR93	EP14X104	22K ohm, 5%, I/8W, Carbon
AR94	EP14X103	10K ohm, 5%, I/8W, Carbon
AR95	EP14X125	47K ohm, 5%, I/8W, Carbon
AR96	EP14X119	68K ohm, 5%, I/8W, Carbon
AR97	EP14X103	10K ohm, 5%, I/4W, Carbon
AR100	EP14X125	47K ohm, 5%, I/8W, Carbon
AR101	EP14X119	68K ohm, 5%, I/8W, Carbon
AR102	EP14X103	10K ohm, 5%, I/8W, Carbon
AR103	EP14X103	10K ohm, 5%, I/8W, Carbon
AR104	EP14X103	10K ohm, 5%, I/8W, Carbon
AR105	ES14X62	1.5K ohm, 5%, I/8W, Carbon
AR106	ES14X62	1.5K ohm, 5%, I/8W, Carbon
AR107	EP14X103	10K ohm, 5%, I/8W, Carbon
AR108	EP14X104	22K ohm, 5%, I/8W, Carbon
AR110	ES14X65	4.7K ohm, 5%, I/8W, Carbon
AR111	EP14X187	100 ohm, 5%, I/8W, Carbon
AR112	EP14X196	180K ohm, 5%, I/8W, Carbon
AR113	EP14X303	22K ohm, 5%, I/8W, Carbon
AR114	EP14X393	130K ohm, 5%, I/8W, Carbon
AR115	EP14X285	15K ohm, 5%, I/8W, Carbon
AR116	EP14X271	82K ohm, 5%, I/8W, Carbon
AR117	EP14X284	12K ohm, 5%, I/8W, Carbon
AR124	EP14X285	15K ohm, 5%, I/8W, Carbon
AR130	Common	3.6K ohm, 5%, I/8W, Carbon
AR131	Common	6.2K ohm, 5%, I/8W, Carbon
AR132	Common	3.6K ohm, 5%, I/8W, Carbon
AR133	Common	6.2K ohm, 5%, I/8W, Carbon
AR134	Common	3.6K ohm, 5%, I/8W, Carbon
AR135	Common	6.2K ohm, 5%, I/8W, Carbon
AR136	EP14X185	120K ohm, 5%, I/8W, Carbon
AR137	EP14X103	10K ohm, 5%, I/8W, Carbon
AR150	EP14X103	10K ohm, 5%, 1/4W, Corbon
AR151	EP14X103	10K ohm, 5%, 1/4W, Corbon

INTEGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
AIC1	EP84X143	AUDIO SWITCHING
AIC2	EP84X229	AUDIO CONTROL
AIC3	EP84X228	VIDEO SWITCH
AIC4	EP84X217	3 TERMINAL VOL REG.

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
AQ1	ES15X90	LATCHING-PNP, Silicon
AQ2	EP15X86	SWITCH CONTROL-NPN, Silicon
AQ4	ES15X90	LATCHING-PNP, Silicon
AQ5	EP15X86	SWITCH CONTROL-NPN, Silicon
AQ7	ES15X90	LATCHING-PNP, Silicon
AQ8	EP15X86	SWITCH CONTROL-NPN, Silicon
AQ10	EP15X86	DISP DRIVER-NPN, Silicon
AQ11	EP15X86	DISP DRIVER-NPN, Silicon
AQ12	EP15X86	DISP DRIVER-NPN, Silicon
AQ13	EP15X86	CH DISP KILLER-NPN, Silicon
AQ14	EP15X86	EXT. VIDEO CONTROL-NPN, Silicon
AQ15	EP15X86	EXT. AMP-NPN, Silicon
AQ16	EP15X86	EXT. AMP-NPN, Silicon
AQ20	EP15X86	MUTE-NPN, Silicon
AQ21	EP15X86	AUDIO BUFFER RIGHT-NPN, Silicon
AQ22	EP15X86	AUDIO BUFFER LEFT-NPN, Silicon

(CONTINUED)

3/85 Supersedes 2/84 (7.3-6)

19" and 25" PM-A/B Parts List (Cont.)

AQ23	EP15X86	MUTE-NPN, Silicon
AQ25	EP15X86	LOUDNESS-NPN, Silicon
AQ26	EP15X86	VOL. CONTROL-NPN, Silicon
AQ33	ES15X90	CH DISP CONTROL-PNP, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
AY1	EP57X4	Rectifier
AY2	EP57X4	Rectifier
AY3	EP57X4	Rectifier
AY4	EP57X4	Rectifier
AY5	EP57X4	Rectifier
AY6	ES16X27	Silicon
AY7	ES16X27	Silicon
AY8	ES16X27	Silicon
AY9	ES16X27	Silicon
AY12	EP57X4	Rectifier
AY13	EP57X4	Rectifier
AY14	EP57X4	Rectifier
AY15	EP57X4	Rectifier
AY16	EP57X4	Rectifier
AY17	EP57X4	Rectifier
AY20	ES16X27	Silicon
AY21	ES16X27	Silicon
AY22	ES16X27	Silicon
AY23	ES16X27	Silicon
AY24	ES16X27	Silicon
AY26	ES16X27	Silicon
AY27	ES16X27	Silicon
AY29	ES16X27	Silicon
AY30	ES16X27	Silicon
AY31	ES16X27	Silicon
AY32	ES16X27	Silicon
AY33	ES16X27	Silicon
AY34	ES16X27	Silicon
AY35	ES16X27	Silicon
AY36	EP57X4	Rectifier
AY37	EP57X4	Rectifier
AY51	EP16X58	Zener
AY52	EP16X58	Zener
AY53	EP16X58	Zener
AY54	EP16X19	Zener, 1W
AY58	EP16X58	Zener
AY59	EP16X58	Zener
AY60	EP16X58	Zener
AY70	EP16X29	Zener, 3.3W

PM-A/B/C/D

COMB FILTER CIRCUIT BOARD

EP93X435

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C601	31X170	4.7µf, 20%, 35V, Elect.
C602	25X6	4700pf, 5%, 50V, Polyester
C603	18X206	.022µf, 30%, 25V, Cer. Disc
C604	25X94	5600pf, 5%, 50V, Polyester
C605	31X162	100µf, 20%, 16V, Elect.
C606	25X102	3300pf, 5%, 50V Polyester
C611	18X169	.01µf, 30%, 25V, Cer. Disc

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R601	14X431	1.3K ohm, 5%, I/4W, Carbon
R602	14X380	27K ohm, 5%, I/4W, Carbon
R603	14X409	10 ohm, 5%, I/4W, Carbon
R604	14X416	510 ohm, 5%, I/4W, Carbon
R605	14X380	27K ohm, 5%, I/4W, Carbon
R606	14X70	100 ohm, 5%, I/4W, Carbon
R607	14X217	620 ohm, 5%, I/4W, Carbon
R608	14X268	22 ohm, 5%, I/4W, Carbon
R609	14X59	560 ohm, 5%, I/4W, Carbon
R610	14X59	560 ohm, 5%, I/4W, Carbon
R611	14X220	180 ohm, 5%, I/4W, Carbon
R612	14X71	1K ohm, 5%, I/4W, Carbon
R613	14X409	10 ohm, 5%, I/4W, Carbon
R614	14X60	680 ohm, 5%, I/4W, Carbon
R615	14X70	100 ohm, 5%, I/4W, Carbon
R616	14X70	100 ohm, 5%, I/4W, Carbon
R618	14X400	2.7K ohm, 5%, I/4W, Carbon
R619	14X400	2.7K ohm, 5%, I/4W, Carbon
R620	14X409	10 ohm, 5%, I/4W, Carbon
R621	14X409	10 ohm, 5%, I/4W, Carbon
R622	14X60	680 ohm, 5%, I/4W, Carbon
R623	14X71	1K ohm, 5%, I/4W, Carbon
R624	14X427	200K ohm, 5%, I/4W, Carbon
R625	14X427	200K ohm, 5%, I/4W, Carbon
R626	14X409	10 ohm, 5%, I/4W, Carbon
R637	14X103	10K ohm, 5%, I/4W, Carbon
R643	14X103	10K ohm, 5%, I/4W, Carbon
R651	14X389	91 ohm, 5%, I/4W, Carbon
R653	14X389	91 ohm, 5%, I/4W, Carbon

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
R617	49X466	250 ohm, 20%

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q610	15X88	VIDEO BUFFER-NPN, Silicon
Q620	15X88	INVERSE VIDEO AMP.-NPN, Silicon
Q630	15X88	LUMA BUFFER-NPN, Silicon
Q640	15X88	CHROMA BUFFER-NPN, Silicon
Q650	15X88	SWITCH-NPN, Silicon
Q660	15X88	SWITCH-NPN, Silicon
Q670	15X88	BUFFER-NPN, Silicon
Q680	15X88	DELAY-NPN, Silicon
Q690	15X88	PULSE GEN.-NPN, Silicon

DIODE

REF. NO.	PART NO.	DESCRIPTION
Y601	16X27	Silicon

COILS

REF. NO.	PART NO.	DESCRIPTION
L605	36X136	CHOKE-15µh, 10%
L610	36X457	COIL-Delay Line
L620	36X473	COIL-Chroma, 5.3µh

(CONTINUED)

19'' and 25'' PM-A/B Parts List (Cont.)

PM-A/B

DUAL 10 WATT (5 WATT) AUDIO CIRCUIT BOARD EP93X437

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
AC201	EP31X173	2.2μf, 20%, 50V, Elect.
AC202	EP31X163	47μf, 20%, 25V, Elect.
AC203	EP31X149	10μf, 20%, 35V, Elect.
AC204	EP25X77	.1μf, 20%, 50V, Polyester
AC205	EP25X95	.22μf, 20%, 50V, Polyester
AC206	EP31X111	2200μf, 20%, 35V, Elect.
AR211	EP31X173	2.2μf, 20%, 50V, Elect.
AR212	EP31X163	47μf, 20%, 25V, Elect.
AR213	EP31X149	10μf, 20%, 35V, Elect.
AC215	EP25X95	.22μf, 20%, 50V, Polyester
AC216	EP31X111	2200μf, 20%, 35V, Elect.
AC217	EP31X182	1000μf, 20%, 50V, Elect.
AC218	EP31X182	1000μf, 20%, 50V, Elect.
AC219	EP31X182	1000μf, 20%, 50V, Elect.
AC221	EP31X166	1μf, 20%, 50V, Elect.
AC222	EP31X166	1μf, 20%, 50V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
AR200	EP14X103	10K ohm, 5%, l/8W, Carbon
AR201	EP14X103	10K ohm, 5%, l/8W, Carbon
AR202	EP14X103	10K ohm, 5%, l/8W, Carbon
AR203	EPES14X64 EPES(10 Watt Only)	2K ohm, 5%, l/8W, Carbon
AR204	EP14X104	22K ohm, 5%, l/8W, Carbon
AR205	EPES14X79	1 ohm, 5%, 1/2W, Carbon
AR206	Common	220 ohm, 5%, 1/2W, Carbon
AR208	EPES14X60	680 ohm, 5%, l/8W, Carbon
AR210	EP14X103	10K ohm, 5%, l/8W, Carbon
AR211	EP14X103	10K ohm, 5%, l/8W, Carbon
AR212	EP14X103	10K ohm, 5%, l/8W, Carbon
AR213	EPES14X64 EPES(10 Watt Only)	2K ohm, 5%, l/8W, Carbon
AR214	EP14X104	22K ohm, 5%, l/8W, Carbon
AR215	EPES14X79	1 ohm, 5%, 1/2W, Carbon
AR216	Common	220 ohm, 5%, 1/2W, Carbon
AR217	EP14X152	1meg ohm, 5%, 2W, Metal Oxide
AR218	EPES14X60	680 ohm, 5%, l/8W, Carbon

INTEGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
AIC200	EP84X109	AUDIO POWER AMP
AIC201	EP84X109	AUDIO POWER AMP

DIODES

REF. NO.	PART NO.	DESCRIPTION
AY200	EP16X58	Zener
AY201	EP16X148	Zener
AY210	EP16X58	Zener
AY211	EP16X148	Zener

19'' PM-A/B

HORIZ HEAT SINK CIRCUIT BOARD

EP93X425

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
★C1901	ES18X13	330pf, 20%, 2KV, Cer. Disc
★C1903	EP25X176	.012uf, 5%, 1.5KV, Polyproplyene
★C1904	EP25X152	.1uf, 10%, 200V Polyproplyene
C1905	EP25X106	.39uf, 10%, 400V, Polyester
C1907	EP18X207	330pf, 20%, 500V, Cer. Disc
C1909	EP25X151	2700pf, 10%, 100V, Mylar
C1915	EP25X151	2700pf, 10%, 200V, Mylar

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R1901	EP14X297	170 ohm, 10%, 7W, Wirewound
R1907	EP14X187	100 ohm, 5%, 1/2W, Carbon
R1911	EP14X128	330 ohm, 5%, 1/2W, Carbon

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
R1903	EP49X160	HORIZ CENTERING-500 ohm, 10%

TRANSISTOR

REF. NO.	PART NO.	DESCRIPTION
Q1901	EP15X218	HORIZ OUTPUT-NPN, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y1903	EP57X5	Rectifier, 400V
Y1905	EP57X5	Rectifier, 400V
Y1907	EP57X5	Rectifier, 400V

COILS & TRANSFORMER

REF. NO.	PART NO.	DESCRIPTION
★L1901	EP36X470	COIL-Width
L1903	EP36X450	CHOKE-2.5uh, 10%
★L1905	EP36X456	COIL-Linearity
★T1901	EP36X466	COIL-Pincushion Asm.

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
RL10	EP8X90	CONNECTOR-3 Pos.
RL12	EP8X30	CONNECTOR-1 Pin
RL20	EP8X92	CONNECTOR-10 Pos.
FB1901	EP12X2	BEAD-Shield
FB1903	EP12X2	BEAD-Shield
	EP3X52	SPACER-Q1901

(CONTINUED)

19" and 25" PM-A/B Parts List (Cont.)

25" & 26" PM-A/B/C/D

HORIZ HEAT SINK CIRCUIT BOARD

EP93X426

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
★C1901	ES18X13	330pf, 20%, 2KV, Cer. Disc
★C1903	EP25X177	.015μf, 5%, 1.5KV, Polyproplyene
★C1904	EP25X159	.15μf, 10%, 200V Polyproplyene
C1905	EP25X91	.47μf, 10%, 400V, Polyester
C1907	EP18X217	330pf, 20%, 500V, Cer. Disc
C1909	EP25X151	2700pf, 10%, 100V, Mylar
C1915	EP25X151	2700pf, 10%, 200V, Mylar

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R1901	EP14X297	170 ohm, 10%, 7W, Wirewound
R1907	EP14X187	100 ohm, 5%, 1/2W, Carbon
R1911	EP14X128	330 ohm, 5%, 1/2W, Carbon

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
R1903	EP49X160	HORIZ CENTERING-500 ohm, 10%

TRANSISTOR

REF. NO.	PART NO.	DESCRIPTION
Q1901	EP15X218	HORIZ OUTPUT-NPN, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y1903	EP57X5	Rectifier, 400V
Y1905	EP57X5	Rectifier, 400V
Y1907	EP57X5	Rectifier, 400V

COILS & TRANSFORMER

REF. NO.	PART NO.	DESCRIPTION
★L1901	EP36X470	COIL-Width
L1903	EP36X450	CHOKE-2.5μh, 10%
★L1905	EP36X472	COIL-Linearity
★T1901	EP36X448	COIL-Pincushion Asm.

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
RL10	EP8X90	CONNECTOR-3 Pos.
RL12	EP8X30	CONNECTOR-1 Pin
RL20	EP8X92	CONNECTOR-10 Pos.
FB1901	EP12X2	BEAD-Shield
FB1903	EP12X2	BEAD-Shield
	EP3X52	SPACER-Q1901

19" & 25" PM-A/B

2 WATT POWER SUPPLY CIRCUIT BOARD

EP93X430

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
★C901	EP25X147	.1μf, 10%, 125V, Polyester
C903	EP18X81	1000pf, 10%, 1KV, Cer. Disc
C904	EP18X81	1000pf, 10%, 1KV, Cer. Disc
C905	EP18X81	1000pf, 10%, 1KV, Cer. Disc
C906	EP18X81	1000pf, 10%, 1KV, Cer. Disc
C907	EP31X181	330μf, 20%, 200V, Elect.
C908	EP18X283	220pf, 10%, 500V, SHiK, Cer. Disc
C909	EP18X282	51pf, 5%, 500V, Cer. Disc
C910	EP31X162	100μf, 20%, 25V, Elect.
C911	EP31X162	100μf, 20%, 16V, Elect.
C912	EP31X162	100μf, 20%, 16V, Elect.
C913	EP18X284	1500pf, 20%, 500V, SHiK, Cer. Disc
C914	EP25X77	.01μf, 10%, 50V, Polyester
C915	EP31X166	1μf, 20%, 50V, Elect.
C917	EP25X174	8200pf, 10%, 50V, Polyester
C918	EP25X175	.015μf, 5%, 1KV, Polypropylene
C919	EP25X173	.001μf, 10%, 50V, Polyester
C920	EP18X118	.1μf, +30-80%, 25V, Cer. Disc
C922	EP18X283	220pf, 10%, 50V, SHiK, Cer. Disc
C963	EP31X45	47μf, 20%, 35V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
★R901	EP14X357	1 ohm, 10%, 5W, Wirewound
★R902	EP14X357	1 ohm, 10%, 5W, Wirewound
R903	EP14X105	100K ohm, 5%, 1/2W, Carbon
★R904	EP14X330	THERMISTOR
R905	EP14X268	22 ohm, 5%, 1/2W, Carbon
★R906	EP14X323	6.8K ohm, 5%, 3W, Flame Proof
R907	EP14X354	.39 ohm, 5%, 2W, Metal Oxide
R908	EP14X105	100K ohm, 5%, l/4W, Carbon
★R909	EP14X355	200 ohm, 1%, l/4W, Metal Film
★R910	EP14X359	1.21K ohm, 1%, l/4W, Carbon
★R911	Common	12K ohm, 5%, l/4W, Carbon
★R913	ES14X103	10K ohm, 5%, l/4W, Carbon
R914	EP14X103	10K ohm, 5%, l/4W, Carbon
R916	EP14X390	110K ohm, 5%, 1/2W, Carbon
★R917	EP14X358	7.5 ohm, 5%, 5W, Wirewound
R918	EP14X356	100 ohm, 5%, 2W, Metal Oxide
R920	ES14X71	1K ohm, 5%, l/4W, Carbon

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
R912	EP49X489	REG ADJUST-B+ 128V, 10K ohm, 20%

INTEGRATED CIRCUIT

REF. NO.	PART NO.	DESCRIPTION
★IC901	EP84X233	SWITCHING POWER SUPPLY REGULATOR

(CONTINUED)

19" and 25" PM-A/B Parts List (Cont.)

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q901	EP15X223	SWITCHING-NPN, Silicon
Q902	EP15X224	TRIAC BI DIRECTIONAL TRIODE THYRISTOR

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y901	EP57X4	Rectifier
Y902	EP57X4	Rectifier
Y903	EP57X4	Rectifier
Y904	EP57X4	Rectifier
Y905	EP57X4	Rectifier
Y907	EP57X5	Rectifier
Y908	EU16X11	Silicon
Y909	EU16X11	Silicon
Y910	EP57X5	Rectifier
★Y911	EP16X156	Zener, 27V
Y912	EP57X5	Rectifier
Y913	EP57X5	Rectifier
Y914	EP16X74	Zener, 4.3V
Y937	EP57X5	Rectifier

COILS

REF. NO.	PART NO.	DESCRIPTION
★L901	EP36X464	CHOKE-Line Filter
★L902	EP36X465	CHOKE-Filament, 2.2μh

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
FB901	EP12X6	BEAD-Shield
FB903	EP12X2	BEAD-Shield
FB907	EP12X6	BEAD-Shield
	EP3X7	CLIP-Fuse (4 Used)
	EP66X19	CORD-AC Power, Polarized
★F901	EP10X19	FUSE-4amp, 250V, Fast Acting, Snap-In
★F902	EP10X21	FUSE-2.5amp, 250V, Fast Acting, Snap-In

19" & 25" PM-A/B

10 WATT POWER SUPPLY CIRCUIT BOARD

EP93X431

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
★C901	EP25X147	.1μf, 10%, 125V, Polyester
C903	EP18X81	1000pf, 10%, 1KV, Cer. Disc
C904	EP18X81	1000pf, 10%, 1KV, Cer. Disc
C905	EP18X81	1000pf, 10%, 1KV, Cer. Disc
C906	EP18X81	1000pf, 10%, 1KV, Cer. Disc
C907	EP31X181	330μf, 20%, 200V, Elect.
C908	EP18X283	220pf, 10%, 500V, SHiK, Cer. Disc
C909	EP18X282	51pf, 5%, 500V, Cer. Disc
C910	EP31X162	100μf, 20%, 25V, Elect.
C911	EP31X162	100μf, 20%, 16V, Elect.
C912	EP31X162	100μf, 20%, 16V, Elect.
C913	EP18X284	1500pf, 20%, 500V, SHiK, Cer. Disc
C914	EP25X77	.01μf, 10%, 50V, Polyester
C915	EP31X166	1μf, 20%, 50V, Elect.
C917	EP25X174	8200pf, 10%, 50V, Polyester
C918	EP25X175	.015μf, 5%, 1KV, Polypropylene
C919	EP25X173	.001μf, 10%, 50V, Polyester
C920	EP18X118	.1μf, +30-80%, 25V, Cer. Disc
C922	EP18X283	220pf, 10%, 50V, SHiK, Cer. Disc
C963	EP31X45	47μf, 20%, 35V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
★R901	EP14X357	1 ohm, 10%, 5W, Wirewound
★R902	EP14X357	1 ohm, 10%, 5W, Wirewound
R903	EP14X105	100K ohm, 5%, 1/2W, Carbon
★R904	EP14X330	THERMISTOR
R905	EP14X268	22 ohm, 5%, 1/2W, Carbon
★R906	EP14X323	6.8K ohm, 5%, 3W, Flame Proof
R907	EP14X354	.39 ohm, 5%, 2W, Metal Oxide
R908	EP14X105	100K ohm, 5%, l/4W, Carbon
★R909	EP14X355	200 ohm, 1%, l/4W, Metal Film
★R910	EP14X359	1.21K ohm, 1%, l/4W, Carbon
★R911	Common	12K ohm, 5%, l/4W, Carbon
★R913	ES14X103	10K ohm, 5%, l/4W, Carbon
R914	EP14X103	10K ohm, 5%, l/4W, Carbon
R916	EP14X390	110K ohm, 5%, 1/2W, Carbon
★R917	EP14X358	7.5 ohm, 5%, 5W, Wirewound
R918	EP14X356	100 ohm, 5%, 2W, Metal Oxide
R920	ES14X71	1K ohm, 5%, l/4W, Carbon

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
R912	EP49X489	REG ADJUST-B+ 128V, 10K ohm, 20%

INTEGRATED CIRCUIT

REF. NO.	PART NO.	DESCRIPTION
★IC901	EP84X233	SWITCHING POWER SUPPLY REGULATOR

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q901	EP15X223	SWITCHING-NPN, Silicon
Q902	EP15X224	TRIAC BI DIRECTIONAL TRIODE THYRISTOR

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y901	EP57X4	Rectifier
Y902	EP57X4	Rectifier
Y903	EP57X4	Rectifier
Y904	EP57X4	Rectifier
Y905	EP57X4	Rectifier
Y907	EP57X5	Rectifier
Y908	EU16X11	Silicon
Y909	EU16X11	Silicon
Y910	EP57X5	Rectifier

(CONTINUED)

19" and 25" PM-A/B Parts List (Cont.)

★Y911	EP16X156	Zener, 27V
Y912	EP57X5	Rectifier
Y913	EP57X5	Rectifier
Y914	EP16X74	Zener, 4.3V
Y937	EP57X5	Rectifier

COILS

REF. NO.	PART NO.	DESCRIPTION
★L901	EP36X464	CHOKE-Line Filter
★L902	EP36X465	CHOKE-Filament, 2.2µh

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
FB901	EP12X6	BEAD-Shield
FB903	EP12X2	BEAD-Shield
FB907	EP12X6	BEAD-Shield
EP3X7		CLIP-Fuse (4 Used)
	EP66X19	CORD-AC Power, Polarized
★F901	EP10X19	FUSE-4amp, 250V, Fast Acting, Snap-In
★F902	EP10X4	FUSE-3amp, 250V, Fast Acting, Snap-In

19" PM-A/B

RGB CIRCUIT BOARD

EP93X432

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C402	EP18X207	330pf, 20%, 500V, SHiK,, Cer. Disc
C403	EP18X26	.01µf, +80-20%, 500V, HiK, Cer. Disc
C404	EP18X180	820pf, 20%, 50V, Hik, Cer. Disc
C405	EP18X207	330pf, 20%, 500V, SHiK,, Cer. Disc
C406	EP18X270	1000pf, 20%, 50V, HiK, Cer. Disc
C407	EP18X207	330pf, 20%, 500V, SHiK,, Cer. Disc
C408	EP18X180	820pf, 20%, 50V, HiK, Cer. Disc
C409	EP18X207	330pf, 20%, 500V, SHiK,, Cer. Disc
C490	EP18X267	4700pf, +80-20%, 2KV, SHiK, Cer. Disc
C499	ES18X43	.01µf, 20%, 50V, HiK, Cer. Disc

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R403	EP14X103	10K ohm, 5%, l/8W, Carbon
R404	EP14X289	430 ohm, 5%, l/8W, Carbon
R405	ES14X59	560 ohm, 5%, l/8W, Carbon
★R411	EP14X183	3.3K ohm, 5%, 1/2W, Carbon
★R413	EP14X183	3.3K ohm, 5%, 1/2W, Carbon
R414	ES14X56	33 ohm, 5%, l/8W, Carbon
★R415	EP14X183	3.3K ohm, 5%, 1/2W, Carbon
R416	ES14X56	33 ohm, 5%, l/8W, Carbon
R418	ES14X56	33 ohm, 5%, l/8W, Carbon
★R419	EP14X183	3.3K ohm, 5%, l/4W, Carbon
★R424	EP14X187	100 ohm, 5%, l/8W, Carbon
★R426	EP14X187	100 ohm, 5%, l/8W, Carbon
★R428	ES14X70	100 ohm, 5%, l/8W, Carbon
R430	EP14X131	1meg ohm, 10%, 1/4W, Carbon
★R434	EP14X329	200 ohm, 5%, l/8W, Carbon
★R436	EP14X329	200 ohm, 5%, l/8W, Carbon
★R438	EP14X329	200 ohm, 5%, l/8W, Carbon
R454	ES14X65	4.7K ohm, 5%, l/8W, Carbon
R456	ES14X65	4.7K ohm, 5%, l/8W, Carbon
R458	ES14X65	4.7K ohm, 5%, l/8W, Carbon
★R464	ES14X64	2K ohm, 5%, l/8W, Carbon
★R466	ES14X64	2K ohm, 5%, l/8W, Carbon
★R468	ES14X64	2K ohm, 5%, l/8W, Carbon
★R484	EP14X231	12K ohm, 5%, 2W, Metal Oxide
★R486	EP14X231	12K ohm, 5%, 2W, Metal Oxide
★R488	EP14X231	12K ohm, 5%, 2W, Metal Oxide

POTENTIOMETERS

REF. NO.	PART NO.	DESCRIPTION
R444	EP49X469	Red Drive, 150 ohm, 20%
R446	EP49X469	Green Drive, 150 ohm, 20%
R448	EP49X469	Blue Drive, 150 ohm, 20%
R474	EP49X470	Red Cut Off, 5K ohm, 20%
R476	EP49X470	Green Cut Off, 5K ohm, 20%
R478	EP49X470	Blue Cut Off, 5K ohm, 20%

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q404	EP15X61	RED DRIVE-NPN, Silicon
Q406	EP15X61	GREEN DRIVE-NPN, Silicon
Q408	EP15X61	BLUE DRIVE-NPN, Silicon

DIODE

REF. NO.	PART NO.	DESCRIPTION
Y499	EP16X52	Zener, 15V

COIL

REF. NO.	PART NO.	DESCRIPTION
L403	ES36X82	CHOKE-220µh, 10%

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
RL4	EP8X92	CONNECTOR-8 Pos.
RL25	EP8X90	CONNECTOR-3 Pos.
	EP60X26	HEAT SINK-Q404/Q406/Q408
★	EP34X69	SOCKET-CRT

(CONTINUED)

19" and 25" PM-A/B Parts List (Cont.)

25" PM-A/B

RGB CIRCUIT BOARD

EP93X433

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C402	EP18X207	330pf, 20%, 500V, SHiK, Cer. Disc
C403	EP18X26	.01μf, +80-20%, 500V, HiK, Cer. Disc
C404	EP18X180	820pf, 20%, 50V, Hik, Cer. Disc
C405	EP18X207	330pf, 20%, 500V, SHiK, Cer. Disc
C406	EP18X270	1000pf, 20%, 50V, HiK, Cer. Disc
C407	EP18X207	330pf, 20%, 500V, SHiK, Cer. Disc
C408	EP18X180	820pf, 20%, 50V, HiK, Cer. Disc
C409	EP18X207	330pf, 20%, 500V, SHiK, Cer. Disc
C490	EP18X267	4700pf, +80-20%, 2KV, SHiK, Cer. Disc
C499	ES18X43	.01μf, 20%, 50V, HiK, Cer. Disc

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R403	EP14X103	10K ohm, 5%, l/8W, Carbon
R404	EP14X289	430 ohm, 5%, l/8W, Carbon
R405	ES14X59	560 ohm, 5%, l/8W, Carbon
★R411	EP14X183	3.3K ohm, 5%, 1/2W, Carbon
★R413	EP14X183	3.3K ohm, 5%, 1/2W, Carbon
R414	ES14X56	33 ohm, 5%, l/8W, Carbon
★R415	EP14X183	3.3K ohm, 5%, 1/2W, Carbon
R416	ES14X56	33 ohm, 5%, l/8W, Carbon
R418	ES14X56	33 ohm, 5%, l/8W, Carbon
★R419	EP14X183	3.3K ohm, 5%, l/4W, Carbon
★R424	EP14X187	100 ohm, 5%, l/8W, Carbon
★R426	EP14X187	100 ohm, 5%, l/8W, Carbon
★R428	ES14X70	100 ohm, 5%, l/8W, Carbon
R430	EP14X131	1meg ohm, 10%, 1/4W, Carbon
★R434	EP14X329	200 ohm, 5%, l/8W, Carbon
★R436	EP14X329	200 ohm, 5%, l/8W, Carbon
★R438	EP14X329	200 ohm, 5%, l/8W, Carbon
R454	ES14X65	4.7K ohm, 5%, l/8W, Carbon
R456	ES14X65	4.7K ohm, 5%, l/8W, Carbon
R458	ES14X65	4.7K ohm, 5%, l/8W, Carbon
★R464	ES14X64	2K ohm, 5%, l/8W, Carbon
★R466	ES14X64	2K ohm, 5%, l/8W, Carbon
★R468	ES14X64	2K ohm, 5%, l/8W, Carbon
★R484	EP14X231	12K ohm, 5%, 2W, Metal Oxide
★R486	EP14X231	12K ohm, 5%, 2W, Metal Oxide
★R488	EP14X231	12K ohm, 5%, 2W, Metal Oxide

POTENTIOMETERS

REF. NO.	PART NO.	DESCRIPTION
R444	EP49X469	Red Drive, 150 ohm, 20%
R446	EP49X469	Green Drive, 150 ohm, 20%
R448	EP49X469	Blue Drive, 150 ohm, 20%
R474	EP49X470	Red Cut Off, 5K ohm, 20%
R476	EP49X470	Green Cut Off, 5K ohm, 20%
R478	EP49X470	Blue Cut Off, 5K ohm, 20%

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q404	EP15X61	RED DRIVE-NPN, Silicon
Q406	EP15X61	GREEN DRIVE-NPN, Silicon
Q408	EP15X61	BLUE DRIVE-NPN, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y499	EP16X52	Zener, 15V

COIL

REF. NO.	PART NO.	DESCRIPTION
L403	ES36X82	CHOKE-220μh, 10%

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
RL4	EP8X92	CONNECTOR-8 Pos.
RL25	EP8X90	CONNECTOR-3 Pos.
	EP60X26	HEAT SINK-Q404/Q406/Q408
	★EP34X69	SOCKET-CRT

PM-A/B

SIGNAL CIRCUIT BOARD

EP93X427

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C101	EP18X205	560pf, 10%, 50V, HiK, Cer. Disc
C102	EP18X205	560pf, 10%, 50V, HiK, Cer. Disc
C103	EU22X216	.01μf, +80-20%, 50V, HiK, Cer Disc
C104	EP18X259	1000pf, 10%, 500V, SHiK, Cer Disc
C105	ES25X21	.15μf, 20%, 50V, Polyester
C107	EP18X191	68pf, 5%, 50V, NPO, Cer. Disc
C108	EP18X194	100pf, 5%, 50V, N750, Cer. Disc
C111	EP18X111	68pf, 5%, 50V, NPO, Cer. Disc
C113	EU22X216	.01μf, +80-20%, 50V, HiK, Cer Disc
C114	EP18X191	68pf, 5%, 50V, NPO, Cer. Disc
C115	EP18X101	13pf, 5%, 50V, NPO, Cer. Disc
C119	EP31X170	4.7μf, 20%, 35V, Elect.
C120	EP18X195	120pf, 5%, 50V, NPO, Cer Disc
C121	EU22X216	.01μf, +80-20%, 50V, HiK, Cer Disc
C124	EP18X366	22pf, 10%, 50V, NPO, Cer Disc
C125	EP31X163	47μf, 20%, 25V, Elect.
C126	EU22X216	.01μf, +80-20%, 50V, HiK, Cer Disc
C127	EU22X216	.01μf, +80-20%, 50V, HiK, Cer Disc
C128	EU22X216	.01μf, +80-20%, 50V, HiK Cer Disc

(CONTINUED)

19" and 25" PM-A/B Parts List (Cont.)

C129	EU22X216	.01µf, +80-20%, 50V, HiK, Cer. Disc
C130	EP18X194	100pf, 5%, 50V, N750, Cer. Disc
C131	EU22X216	.01µf, +80-20%, 50V, HiK, Cer. Disc
C132	EU22X216	.01µf, +80-20%, 50V, HiK, Cer. Disc
C133	EU22X216	.01µf, +80-20%, 50V, HiK, Cer. Disc
C136	EP31X141	220µf, 20%, 16V, Elect.
C137	EP31X149	10µf, 20%, 35V, Elect.
C140	EP18X259	1000pf, 10%, 500V, SHiK, Cer. Disc
C141	EP18X259	1000pf, 10%, 500V, SHiK, Cer. Disc
C142	EP18X197	.01µf, 10%, 50V, SHiK, Cer. Disc
C144	EP31X49	1µf, 10%, 16V, Elect.
C169	EP31X168	220µf, 20%, 10V, Elect.
C181	EU22X216	.01µf, 10%, 50V, HiK, Cer. Disc
C182	EP25X130	.022µf, 10%, 50V, Polyester
C183	EP31X166	1µf, 20%, 50V, Elect.
C185	EP31X149	10µf, 20%, 35V, Elect.
C186	EP31X149	10µf, 20%, 35V, Elect.
C187	EP31X149	10µf, 20%, 35V, Elect.
C189	EP31X149	10µf, 20%, 35V, Elect.
C193	EP18X113	150pf, 5%, 50V, NPO, Cer. Disc
C195	EP18X182	5.6pf, 10%, 50V, NPO, Cer. Disc
C196	EP25X166	.039µf, 10%, 50V, Polyester
C197	EP31X170	4.7µf, 20%, 35V, Elect.
C198	EP31X149	10µf, 20%, 35V, Elect.
C199	EU22X216	.01µf, +80-20%, 50V, HiK, Cer. Disc
C200	EP18X274	1500pf, 10%, 50V, SHiK, Cer. Disc
C202	EP18X169	.01µf, 30%, 25V, HiK, Cer. Disc
C206	EP31X172	22µf, 20%, 25V, Elect.
C208	EP18X167	.047µf, 10%, 50V, HiK, Cer. Disc
C216	EP31X149	10µf, 20%, 35V, Elect.
C218	EP31X149	10µf, 20%, 35V, Elect.
C222	EU22X216	.01µf, +80-20%, 50V, HiK, Cer. Disc
C231	EP18X180	820pf, 10%, 50V, Cer. Disc
C234	EP31X149	10µf, 20%, 35V, Elect.
C236	EP18X169	.01µf, 30%, 25V, HiK, Cer. Disc
C242	EP18X140	680pf, 10%, 50V, Cer. Disc
C250	EP25X77	.1µf, 20%, 50V, Polyester
C256	EP31X172	22µf, 20%, 25V, Elect.
C299	EP31X168	220µf, 20%, 16V, Elect.
C300	EP31X175	33µf, +50-20%, 10V, Elect.
C302	EP31X49	1µf, 10%, 16V, Elect.
C306	EP18X122	82pf, 5%, 50V, N220, Cer. Disc
C308	EU22X216	.01µf, 10%, 50V, HiK, Cer. Disc
C310	EP25X87	.047µf, 20%, 50V, Polyester
C314	EP18X277	220pf, 20%, 1KV, HiK, Cer. Disc
C316	EU18X9	39pf, 5%, 50V, NPO, Cer. Disc
C320	ES18X81	30pf, 5%, 500V, NPO, Cer. Disc
C322	EP18X32	36pf, 5%, 500V, NPO, Cer. Disc
C326	EP25X124	.033µf, 20%, 50V, Polyester
C328	EP31X149	10µf, 20%, 35V, Elect.
C330	EP18X32	36pf, 5%, 50V, NPO, Cer. Disc
C334	EP18X194	100pf, 5%, 50V, N750, Cer, Disc
C336	EP31X166	1µf, 20%, 50V, Elect.
C350	EP18X203	270pf, 10%, 50V, HiK, Cer. Disc
C352	EP18X203	270pf, 10%, 50V, HiK, Cer. Disc
C354	EP18X203	270pf, 10%, 50V, HiK, Cer. Disc
C371	EP18X197	1000pf, 10%, 50V, HiK, Cer. Disc
C372	EP18X154	200pf, 10%, 50V, HiK, Cer. Disc
C373	EP18X220	.01µf, 20%, 50V, HiK, Cer. Disc
C374	EP31X149	10µf, 20%, 35V, Elect.
C375	EP18X197	1000pf, 10%, 50V, HiK, Cer. Disc
C377	EP31X166	1µf, 20%, 50V, Elect.
C501	EP31X45	47µf, 20%, 25V, Elect.
C503	EP25X149	5600pf, 5%, 100V, Polyropylene
C505	EP31X49	1µf, 10%, 16V, Elect.
C506	EP25X150	6800pf, 10%, 50V, Polyester
C507	EP25X87	.047µf, 10%, 50V, Polyester
C509	EP25X104	.015µf, 10%, 50V, Polyester
C513	EP31X149	10µf, 20%, 35V, Elect.
C515	EP31X49	1µf, 10%, 16V, Elect.
C521	EP25X87	.047µf, 10%, 50V, Polyester
C523	EP25X77	.1µf, 20%, 50V, Polyester
C525	EP18X197	1000pf, 10%, 50V, SHiK, Cer. Disc
C581	EP18X278	330pf, 20%, 1KV, HiK, Cer. Disc
C601	EP25X171	.033µf, 10%, 50V, Polyester
C603	EP31X149	10µf, 20%, 35V, Elect.
C605	EP18X229	6800pf, 10%, 50V, SHiK, Cer. Disc
C607	EP31X141	220µf, 20%, 25V, Elect.
C609	EP31X166	1µf, 20%, 50V, Elect.
C612	EP25X183	.022µf, 10%, 50V, Polyester
C613	EP18X286	180pf, 5%, 500V, NPO, Cer. Disc
C614	EP31X44	22µf, 20%, 35V, Elect.
C615	EP31X151	2.7µf, 20%, 160V, Elect.
C617	EP18X264	4700pf, 20%, 500V, HiK, Cer. Disc
C619	EP31X154	470µf, 20%, 10V, Elect.
C621	EP31X140	100µf, 20%, 100V, Elect.
C623	EP31X178	1µf, 10%, 35V, Tantalum
C970	EP31X149	10µf, 20%, 35V, Elect.
C971	EP31X159	470µf, 20%, 16V, Elect.
C990	EP18X279	470pf, 20%, 1KV, HiK, Cer. Disc
C991	EP31X156	10µf, +50-20%, 180V, Elect.
C993	EP31X170	4.7µf, 20%, 35V, Elect.
C994	EP25X11	8200pf, 10%, 100V, Polyester

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R101	ES14X70	100 ohm, 5%, 1/4W, Carbon
R102	EP14X379	5.6K ohm, 5%, 1/4W, Carbon
R103	ES14X62	1.5K ohm, 5%, 1/4W, Carbon
R104	ES14X57	390 ohm, 5%, 1/4W, Carbon
R105	EP14X268	22 ohm, 5%, 1/4W, Carbon
R108	EP14X97	270K ohm, 5%, 1/8W, Carbon
R109	EP14X329	220 ohm, 5%, 1/8W, Carbon
R112	ES14X58	470 ohm, 5%, 1/4W, Carbon
R113	ES14X57	390 ohm, 5%, 1/4W, Carbon
R114	ES14X58	470 ohm, 5%, 1/4W, Carbon
R115	EP14X407	3.9K ohm, 5%, 1/8W, Carbon
R117	EP14X329	220 ohm, 5%, 1/4W, Carbon
R118	EP14X370	9.1K ohm, 5%, 1/8W, Carbon
R119	EP14X119	68K ohm, 5%, 1/8W, Carbon
R121	EP14X131	47K ohm, 5%, 1/4W, Carbon
R122	ES14X51	47 ohm, 5%, 1/4W, Carbon
R123	EP14X304	2.7K ohm, 5%, 1/8W, Carbon
R125	EP14X243	2.2K ohm, 5%, 1/4W, Carbon
R126	EP14X411	2.4K ohm, 5%, 1/4W, Carbon
R128	EP14X185	120K ohm, 5%, 1/4W, Carbon
R129	EP14X239	750 ohm, 5%, 1/8W, Carbon
R130	ES14X62	1.5K ohm, 5%, 1/4W, Carbon
R131	EP14X414	18K ohm, 5%, 1/4W, Carbon
R133	ES14X71	1K ohm, 5%, 1/4W, Carbon
R134	EP14X378	120 ohm, 5%, 1/4W, Carbon
R135	EP14X129	220 ohm, 5%, 1/4W, Carbon
R139	EP14X103	10K ohm, 5%, 1/4W, Carbon
R141	EP14X379	5.6K ohm, 5%, 1/4W, Carbon

(CONTINUED)

19" and 25" PM-A/B Parts List (Cont.)

R142	EP14X103	10K ohm, 5%, 1/4W, Carbon
R144	EP14X341	20K ohm, 5%, 1/4W, Carbon
R146	EP14X295	910 ohm, 5%, 1/4W, Carbon
R150	ES14X59	560 ohm, 5%, 1/4W, Carbon
R152	EP14X103	10K ohm, 5%, 1/4W, Carbon
R154	EP14X136	33K ohm, 5%, 1/4W, Carbon
R156	ES14X59	560 ohm, 5%, 1/4W, Carbon
R160	EP14X369	12 ohm, 5%, 1/4W, Carbon
R161	EP14X369	12 ohm, 5%, 1/4W, Carbon
R162	ES14X69	56 ohm, 5%, 1/4W, Carbon
R164	EP14X120	150 ohm, 5%, 1/8W, Carbon
R174	ES14X71	1K ohm, 5%, 1/4W, Carbon
R180	EP14X431	1.3K ohm, 5%, 1/4W, Carbon
R181	EP14X96	6.8K ohm, 5%, 1/4W, Carbon
R182	ES14X71	1K ohm, 5%, 1/4W, Carbon
R183	ES14X71	1K ohm, 5%, 1/4W, Carbon
R186	ES14X61	820 ohm, 5%, 1/4W, Carbon
R188	EP14X133	470K ohm, 5%, 1/4W, Carbon
R194	EP14X103	10K ohm, 5%, 1/8W, Carbon
R195	EP14X379	5.6K ohm, 5%, 1/4W, Carbon
R196	EP14X409	10 ohm, 5%, 1/4W, Carbon
R197	EP14X424	8.2K ohm, 5%, 1/4W, Carbon
R200	EP14X378	120 ohm, 5%, 1/4W, Carbon
R202	EP14X295	910 ohm, 5%, 1/4W, Carbon
R203	EP14X411	2.4K ohm, 5%, 1/4W, Carbon
R208	EP14X416	510 ohm, 5%, 1/4W, Carbon
R209	EP14X409	10 ohm, 5%, 1/4W, Carbon
R210	ES14X59	560 ohm, 5%, 1/4W, Carbon
R211	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
R212	EP14X413	12K ohm, 5%, 1/4W, Carbon
R213	EP14X415	82K ohm, 5%, 1/4W, Carbon
R215	ES14X64	2K ohm, 5%, 1/4W, Carbon
R218	ES14X60	680 ohm, 5%, 1/4W, Carbon
R221	EP14X293	680K ohm, 5%, 1/4W, Carbon
R222	EP14X415	82K ohm, 5%, 1/4W, Carbon
R224	EP14X96	6.8K ohm, 5%, 1/4W, Carbon
R226	EP14X103	10K ohm, 5%, 1/4W, Carbon
R227	EP14X399	270 ohm, 5%, 1/8W, Carbon
R229	EP14X289	430 ohm, 5%, 1/4W, Carbon
R230	ES14X70	100 ohm, 5%, 1/4W, Carbon
R231	ES14X70	100 ohm, 5%, 1/4W, Carbon
E232	EP14X412	3K ohm, 5%, 1/4W, Carbon
R233	EP14X412	3K ohm, 5%, 1/4W, Carbon
R234	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
R237	EP14X399	270 ohm, 5%, 1/4W, Carbon
R238	EP14X238	620 ohm, 5%, 1/8W, Carbon
R239	EP14X410	240 ohm, 5%, 1/4W, Carbon
R240	EP14X189	1.1K ohm, 5%, 1/4W, Carbon
R242	ES14X54	1.2K ohm, 5%, 1/8W, Carbon
R250	ES14X62	1.5K ohm, 5%, 1/4W, Carbon
R252	EP14X414	18K ohm, 5%, 1/4W, Carbon
R254	EP14X105	100K ohm, 5%, 1/4W, Carbon
R256	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
R258	EP14X398	15K ohm, 5%, 1/4W, Carbon
R300	EP14X374	36K ohm, 5%, 1/8W, Carbon
R302	EP14X398	15K ohm, 5%, 1/4W, Carbon
R312	EP14X304	2.7K ohm, 5%, 1/4W, Carbon
R313	EP14X419	30K ohm, 5%, 1/4W, Carbon
R316	EP14X128	330 ohm, 5%, 1/8W, Carbon
R317	EP14X416	510 ohm, 5%, 1/4W, Carbon
R318	EP14X416	510 ohm, 5%, 1/4W, Carbon
R319	EP14X416	510 ohm, 5%, 1/4W, Carbon
R320	EP14X448	1.2K ohm, 5%, 1/8W, Carbon
R322	ES14X58	470 ohm, 5%, 1/4W, Carbon
R326	EP14X284	1K ohm, 5%, 1/8W, Carbon
R328	EP14X284	1K ohm, 5%, 1/8W, Carbon
R336	EP14X418	5.1K ohm, 5%, 1/8W, Carbon
R338	EP14X105	100K ohm, 5%, 1/4W, Carbon
R350	EP14X417	3.6K ohm, 5%, 1/8W, Carbon
R352	EP14X417	3.6K ohm, 5%, 1/8W, Carbon
R356	EP14X417	3.6K ohm, 5%, 1/8W, Carbon
R372	ES14X70	100 ohm, 5%, 1/4W, Carbon
R377	EP14X304	2.7K ohm, 5%, 1/4W, Carbon
R378	EP14X355	200 ohm, 5%, 1/4W, Carbon
R379	ES14X61	820 ohm, 5%, 1/4W, Carbon
R380	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
R381	EP14X379	5.6K ohm, 5%, 1/4W, Carbon
R382	EP14X284	10 ohm, 5%, 1/8W, Carbon
R383	ES14X61	820 ohm, 5%, 1/4W, Carbon
R384	ES14X61	820 ohm, 5%, 1/4W, Carbon
R386	EP14X284	10 ohm, 5%, 1/8W, Carbon
R387	EP14X418	5.1K ohm, 5%, 1/4W, Carbon
R388	EP14X284	10 ohm, 5%, 1/8W, Carbon
R389	EP14X382	820K ohm, 5%, 1/8W, Carbon
★R503	EP14X351	1.5K ohm, 5%, 2W, Metal Oxide
R507	EP14X376	11K ohm, 5%, 1/4W, Carbon
R508	EP14X119	68K ohm, 5%, 1/8W, Carbon
R511	EP14X103	10K ohm, 5%, 1/4W, Carbon
R513	EP14X398	15K ohm, 5%, 1/4W, Carbon
R516	EP14X163	150K ohm, 5%, 1/4W, Carbon
R518	EP14X425	240K ohm, 5%, 1/4W, Carbon
R519	EP14X422	62K ohm, 5%, 1/4W, Carbon
R521	ES14X70	100 ohm, 5%, 1/4W, Carbon
R523	ES14X57	390 ohm, 5%, 1/4W, Carbon
R531	ES14X56	33 ohm, 5%, 1/4W, Carbon
R537	EP14X421	4.3K ohm, 5%, 1/4W, Carbon
R539	EP14X379	5.6K ohm, 5%, 1/4W, Carbon
R541	EP14X386	51K ohm, 5%, 1/4W, Carbon
R601	EP14X398	15K ohm, 5%, 1/4W, Carbon
R603	ES14X51	47 ohm, 5%, 1/4W, Carbon
R605	EP14X103	10K ohm, 5%, 1/4W, Carbon
R609	EP14X398	15K ohm, 5%, 1/4W, Carbon
R610	EP14X387	43K ohm, 5%, 1/8W, Carbon (25" Only)
R611	EP14X289	430 ohm, 5%, 1/4W, Carbon (25" Only)
R612	ES14X60	680 ohm, 5%, 1/4W, Carbon
R613	EP14X367	2K ohm, 5%, 1/4W, Carbon
R615	EP14X285	20K ohm, 5%, 1/8W, Carbon
R617	ES14X70	100 ohm, 5%, 1/4W, Carbon
R621	EP14X388	6.8 ohm, 5%, 1W, Metal Oxide
R623	EP14X370	9.1K ohm, 5%, 1/4W, Carbon
R625	EP14X129	220 ohm, 5%, 1/4W, Carbon
R627	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
R631	EP14X96	6.8K ohm, 5%, 1/4W, Carbon
R633	EP14X424	8.2K ohm, 5%, 1/4W, Carbon
R635	EP14X220	180 ohm, 5%, 1/4W, Carbon
R637	ES14X70	100 ohm, 5%, 1/4W, Carbon
R641	EP14X409	10 ohm, 5%, 1/2W, Carbon
R643	EP14X102	560 ohm, 5%, 1W, Metal Oxide
★R645	EP14X102	560 ohm, 5%, 1W, Metal Oxide
★R647	EP14X230	1.5K ohm 5%, 3W, Flame Proof
R649	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
R651	EP14X369	12 ohm, 5%, 1/2W, Carbon
R653	EP14X346	180 ohm, 5%, 2W, Metal Oxide
R655	ES14X62	1.5K ohm, 5%, 1W, Metal Oxide
R935	EP14X361	1.8K ohm, 5%, 1/4W, Carbon
R935A	EP14X398	15K ohm, 5%, 1/4W, Carbon (25" Only)
R936	ES14X71	1K ohm, 5%, 1/4W, Carbon
R950	EP14X280	15 ohm, 5%, 2W, Metal Oxide
★R990	EP14X329	200 ohm, 5%, 1/2W, Carbon (25" Only)
R990A	EP14X401	120 ohm, 5%, 1/2W, Carbon
★ R996	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
R998	EP14X380	27K ohm, 5%, 1/4W, Carbon

(CONTINUED)

19" and 25" PM-A/B Parts List (Cont.)

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
R116	EP49X463	RF/AGC-5K ohm, 20%
R124	EP49X463	IF/AGC-5K ohm, 20%
R262	EP49X463	BRIGHTNESS CENTER-5K ohm, 20%
R330	EP49X465	APC-50K ohm, 20%
R505	EP49X463	HORIZ HOLD-5K ohm, 20%
R619	EP49X466	250 ohm, 20%
R629	EP49X467	VERTICAL HOLD-10K ohm, 20%
R657	EP49X465	VERTICAL CENTERING-50K ohm, 20%

INTERGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
★EP62X167		HVSD-Thick Film
IC101	EP84X213	IF/AGC/DET
IC190	EP84X216	AUDIO DET/AMP
IC300	EP84X221	CHROMA/VIDEO
IC501	EP84X215	SWEEP OSC.
IC902	EP84X217	3 TERMINAL VOL. REG.

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q105	EP15X104	PRE AMP-Hi Freq
Q107	EP15X87	VIDEO KILLER-NPN, Silicon
Q110	EP15X87	VIDEO BUFFER-NPN, Silicon
Q112	EP15X48	EXT. VIDEO AMP-PNP, Silicon
Q114	EP15X87	VIDEO BUFFER-NPN, Silicon
Q116	EP15X48	VIDEO ISO.-PNP, Silicon
Q118	EP15X87	VIDEO BUFFER-NPN, Silicon
Q200	EP15X88	BEAM LIMITER THRESHOLD-NPN, Silicon
Q202	EP15X48	BEAM LIMITER CONTROL-PNP, Silicon
Q204	EP15X88	PEAK AMP-NPN, Silicon
Q208	EP15X88	VIDEO INV.-NPN, Silicon
Q210	EP15X48	VIDEO INV. AMP-PNP, Silicon
Q212	EP15X48	B-Y EMIT FOLLOWER-PNP, Silicon
Q214	EP15X48	R-Y EMIT FOLLOWER-PNP, Silicon
Q216	EP15X48	G-Y EMIT FOLLOWER-PNP, Silicon
Q218	EP15X48	VIDEO DRIVER-PNP, Silicon
Q300	EP15X226	NPN, Silicon
Q601	EP15X105	VERTICAL OUTPUT-NPN, Silicon
Q603	EP15X105	VERTICAL DRIVER-NPN, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y187	EP16X58	Zener
Y189	EP16X58	Zener
Y190	EP16X58	Zener
Y202	ES16X27	Silicon
Y204	ES16X27	Silicon
Y206	ES16X27	Silicon
Y208	EP16X58	Zener
Y214	ES16X27	Silicon
Y218	ES16X27	Silicon
Y299	EP16X58	Zener
Y300	EP16X147	Silicon
Y350	EP16X58	Zener
Y352	EP16X58	Zener
Y354	EP16X58	Zener
Y503	ES16X27	Silicon
Y504	EP16X19	Zener, 5.6V
Y603	EP57X4	Rectifier
Y605	EP57X4	Rectifier
Y607	EP57X4	Rectifier
Y609	EP57X4	Rectifier
Y933	EP57X4	Rectifier
Y990	ES16X27	Silicon
Y991	EP57X5	Rectifier
Y992	EP57X5	Rectifier

COILS & TRANSFORMERS

REF. NO.	PART NO.	DESCRIPTION
CF100	EP41X126	COIL-Audio, Ceramic Filter, 4.5mhz
CF101	EP41X143	COIL-Ceramic Trap, 4.5mhz
CF212	EP41X133	CERAMIC TRAP
L101	EP36X442	CHOKE-.82μh, 20%
L102	EP36X442	CHOKE-.82μh, 20%
L104	EP36X4	COIL-Choke
L105	EP36X136	CHOKE-15μh, 10%
L106	EP36X433	COIL-Molded
L107	EP36X433	COIL-Molded
L108	EP36X468	COIL-IF Trap
L112	EP36X142	CHOKE-10μh, 10%
L113	EP36X142	CHOKE-10μh, 10%
L180	EP36X142	CHOKE-10μh, 10%
L190	EP36X435	COIL-Quad.
L200	EP36X314	CHOKE-30μh, 10%
L204	EP36X33	CHOKE-56μh, 10%
L220	EP36X459	COIL-Delay Line
L236	EP36X136	CHOKE-15μh, 5%
L300	EP36X23	CHOKE-12μh, 5%
L320	EP36X33	CHOKE-56μh, 5%
L321	EP36X33	CHOKE-56μh, 5%
L322	EP36X33	CHOKE-56μh, 5%
SF101	EP41X123	SURFACE FILTER
X300	EP41X10	CRYSTAL-Quartz Filter

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
RL5	EP8X42	CONNECTOR-4 Pins
	EP3X38	WASHER-Q601, Q603

19" PM-A/B

SWEEP CIRCUIT BOARD

EP93X428

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C701	EP25X110	3300pf, 10%, 200V, Mylar
C703	EP18X217	330pf, 10%, 500V SHiK Cer Disc
★C705	EP25X179	.03μf, 5%, 200V Polypronpylene
C706	EP25X19	.01μf, 10%, 100V, Mylar
C928	EP18X277	220pf, 10%, 1KV, Cer. Disc

(CONTINUED)

19" and 25" PM-A/B Parts List (Cont.)

REF. NO.	PART NO.	DESCRIPTION
C929	EP31X103	1000µf, +100-10%, 40V, Elect.
C930	EP25X77	.1µf, 20%, 50V, Polyester
C931	EP31X103	1000µf, +100-10%, 40V, Elect.
C932	EP18X277	220pf, 10%, 1KV, Cer. Disc
C933	EP31X181	330µf, 20%, 200V, Elect.
C934	EP20X8	.1µf, 10%, 200V, Mylar
C935	EP31X153	22µf, +50-20%, 160V, Elect.
C936	EP18X277	220pf, 10%, 1KV, Cer. Disc
C937	EP31X169	100µf, 20%, 50V, Elect.
C938	EP25X77	.1µf, 20%, 50V, Polyester
C939	EP31X169	100µf, 20%, 50V, Elect.
C950	EP18X279	470pf, 10%, 1KV, Cer. Disc
C951	EP18X259	1000pf, 20% 500V SHiK Cer Disc
C952	EP31X159	470µf, 20%, 25V, Elect.
C953	EP18X279	470pf, 10%, 1KV, Cer. Disc
C954	EP31X174	47µf, 20%, 100V, Elect.
C955	EP18X259	1000pf, 20% 500V SHiK Cer Disc
C956	EP25X89	.047µf, 20%, 300V, Mylar
C957	EP18X279	470pf, 10%, 1KV, Cer. Disc
C958	EP18X81	1000pf, 10%, 1KV, Cer. Disc
C959	EP31X155	4.7µf, +50-20%, 160V, Elect.
C960	EP18X279	470pf, 10%, 1KV, Cer. Disc
C961	EP22X82	1000pf, 20%, 500V HiK Cer Disc
C962	EP31X150	10µf, 20%, 50V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
★MOV901	EP14X353	VARISTOR-Metal Oxide
R703	EP14X348	.47 ohm, 5%, 2W, Metal Oxide
★R707	EP14X351	1.5K ohm, 5%, 2W, Metal Oxide
★R709	EP14X318	3 ohm, 10%, 5W, Wirewound
R928	EP14X152	1K ohm, 5%, 2W, Metal Oxide
★R930	EP14X350	330K ohm, 5%, 2W, Metal Oxide
★R931	ES14X80	2.2 ohm, 5%, 1/2W, Carbon
★R932	EP14X347	1K ohm, 5%, 1W, Metal Oxide
★R933	ES14X80	2.2 ohm, 5%, 1/2W, Carbon
★R934	ES14X79	1 ohm, 5%, 1/2W, Carbon
★R937	EP14X187	100 ohm, 5%, 1/2W, Carbon
R938	Common	220K ohm, 5%, 1/2W, Carbon
★R940	EP14X363	6.8K ohm, 5%, l/8W, Carbon
★R941	EP14X363	6.8K ohm, 5%, l/8W, Carbon
R955	EP14X349	1.8 ohm, 5%, 2W, Metal Oxide
★R956	ES14X80	2.2 ohm, 5%, 1/2W, Carbon

TRANSISTOR

REF. NO.	PART NO.	DESCRIPTION
Q701	EP15X19	HORIZ DRIVER-NPN, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y930	EP57X11	Rectifier
Y931	EP57X5	Rectifier, 400V
Y932	EP57X11	Rectifier
Y934	EP57X5	Rectifier
Y935	EP16X154	Rectifier
Y936	EP57X5	Rectifier
Y938	EP16X145	Rectifier

COILS & TRANSFORMERS

REF. NO.	PART NO.	DESCRIPTION
★L703	EP36X463	CHOKE-15µh
L910	EU36X536	CHOKE-5.6µh, 10%
L911	EU36X536	CHOKE-5.6µh, 10%
L912	EU36X536	CHOKE-5.6µh, 10%
RY900	EP41X132	RELAY
★T701	EP77X61	TRANSFORMER-H.V.
T702	EP64X57	TRANSFORMER-Buffer
★T901	EP88X44	TRANSFORMER-Low Voltage Power

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
FB904	EP12X6	BEAD-Shield
FB905	EP12X6	BEAD-Shield
FB906	EP12X4	BEAD-Shield
FB907	EP12X4	BEAD-Shield
FB908	EP12X4	BEAD-Shield
	EP3X38	WASHER-On Heat Sink (2 Used)

25" PM-A/B

SWEEP CIRCUIT BOARD

EP93X429

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C701	EP25X110	3300pf, 10%, 200V, Mylar
C703	EP18X217	330pf, 10%, 500V SHiK Cer Disc
★C705	EP25X180	.027µf, 5%, 200V Polypronpylene
C706	EP25X19	.01µf, 10%, 100V, Mylar
C928	EP18X277	220pf, 10%, 1KV, Cer. Disc
C929	EP31X103	1000µf, +100-10%, 40V, Elect.
C930	EP25X77	.1µf, 20%, 50V, Polyester
C931	EP31X103	1000µf, +100-10%, 40V, Elect.
C932	EP18X277	220pf, 10%, 1KV, Cer. Disc
C933	EP31X181	330µf, 20%, 200V, Elect.
C934	EP20X8	.1µf, 10%, 200V, Mylar
C935	EP31X153	22µf, +50-20%, 160V, Elect.
C936	EP18X277	220pf, 10%, 1KV, Cer. Disc
C937	EP31X169	100µf, 20%, 50V, Elect.
C938	EP25X77	.1µf, 20%, 50V, Polyester
C939	EP31X169	100µf, 20%, 50V, Elect.
C950	EP18X279	470pf, 10%, 1KV, Cer. Disc
C951	EP18X259	1000pf, 20% 500V SHiK Cer Disc
C952	EP31X159	470µf, 20%, 25V, Elect.
C953	EP18X279	470pf, 10%, 1KV, Cer. Disc
C954	EP31X174	47µf, 20%, 100V, Elect.
C955	EP18X259	1000pf, 20% 500V SHiK Cer Disc
C956	EP25X89	.047µf, 20%, 300V, Mylar
C957	EP18X279	470pf, 10%, 1KV, Cer. Disc
C958	EP18X81	1000pf, 10%, 1KV, Cer. Disc
C959	EP31X155	4.7µf, +50-20%, 160V, Elect.
C960	EP18X279	470pf, 10%, 1KV, Cer. Disc
C961	EP22X82	1000pf, 20%, 500V HiK Cer Disc
C962	EP31X150	10µf, 20%, 50V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
★MOV901	EP14X353	VARISTOR-Metal Oxide
R703	EP14X348	.47 ohm, 5%, 2W, Metal Oxide
★R707	EP14X351	1.5K ohm, 5%, 2W, Metal Oxide

(CONTINUED)

3/85 Supersedes 2/84

19" and 25" PM-A/B Parts List (Cont.)

REF. NO.	PART NO.	DESCRIPTION
★R709	EP14X352	3 ohm, 10%, 7W, Wirewound
R928	EP14X152	1K ohm, 5%, 2W, Metal Oxide
★R930	EP14X350	330K ohm, 5%, 2W, Metal Oxide
★R931	ES14X80	2.2 ohm, 5%, 1/2W, Carbon
★R932	EP14X347	1K ohm, 5%, 1W, Metal Oxide
★R933	ES14X80	2.2 ohm, 5%, 1/2W, Carbon
★R934	ES14X79	1 ohm, 5%, 1/2W, Carbon
★R937	EP14X187	100 ohm, 5%, 1/2W, Carbon
R938	Common	220K ohm, 5%, 1/2W, Carbon
★R940	EP14X363	6.8K ohm, 5%, l/8W, Carbon
★R941	EP14X363	6.8K ohm, 5%, l/8W, Carbon
R955	EP14X269	2.2 ohm, 5%, 2W, Metal Oxide
★R956	ES14X80	2.2 ohm, 5%, 1/2W, Carbon

TRANSISTOR

REF. NO.	PART NO.	DESCRIPTION
Q701	EP15X19	HORIZ DRIVER-NPN, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y930	EP57X11	Rectifier
Y931	EP57X5	Rectifier, 400V
Y932	EP57X11	Rectifier
Y934	EP57X5	Rectifier
Y935	EP16X154	Rectifier
Y936	EP57X5	Rectifier
Y938	EP16X154	Rectifier

COILS & TRANSFORMER

REF. NO.	PART NO.	DESCRIPTION
★L703	EP36X463	CHOKE-15µh
L910	EU36X536	CHOKE-5.6µh, 10%
L911	EU36X536	CHOKE-5.6µh, 10%
L912	EU36X536	CHOKE-5.6µh, 10%
RY900	EP41X132	RELAY
★T701	EP77X62	TRANSFORMER-H.V.
T702	EP64X57	TRANSFORMER-Buffer
★T901	EP88X44	TRANSFORMER-Low Voltage Power

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
FB904	EP12X6	BEAD-Shield
FB905	EP12X6	BEAD-Shield
FB906	EP12X4	BEAD-Shield
FB907	EP12X4	BEAD-Shield
FB908	EP12X4	BEAD-Shield
	EP3X38	WASHER-On Heat Sink (2 Used)

TOP TUNING CIRCUIT BOARD

EP93X489

RESISTOR

REF. NO.	PART NO.	DESCRIPTION
R4001	Common	750 ohm, 5%, l/4W, Carbon

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y4001	EP41X14	STEREO INDICATOR-Red
Y4002	EP41X14	BILINGUAL-Red
Y4003	EP41X14	VIR-Red
Y4004	ES16X27	Silicon

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
RL17	EP8X90	CONNECTOR-5 Pos.
RL32	EP8X30	CONNECTOR-1 Pin
RL65	EP8X90	CONNECTOR-5 Pos.
RL251	EP8X92	CONNECTOR-8 Pos.
	EP3X55	SPACERS-L.E.D. (3 Used)
SW4001	EP39X206	SWITCH-On/Off, Push
SW4002	EP39X206	SWITCH-Vol. Up, Push
SW4003	EP39X206	SWITCH-Vol. Down, Push
SW4004	EP39X206	SWITCH-Channel Up, Push
SW4005	EP39X206	SWITCH-Channel Down, Push
SW4006	EP39X206	SWITCH-T.V., Push
SW4007	EP39X206	SWITCH-Video 1, Push
SW4008	EP39X206	SWITCH-Video 2, Push
SW4011	EP39X207	SWITCH-Loudness/Defeat
SW4012	EP39X207	SWITCH-Mono/Stereo
SW4014	EP39X207	SWITCH-Manual/VIR

(CONTINUED)

19" and 25" PM-A/B Parts List (Cont.)

19" & 25" PC/PM-A/B/C/D/F/H/J

VIR CIRCUIT BOARD ASM

EP93X462

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
CV10	EP25X87	.047µf, 20%, 50V, Polyester
CV11	EP18X204	470pf, 10%, 50V, Cer. Disc
CV12	EP25X87	.047µf, 20%, 50V, Polyester
CV13	EP18X198	2200pf, 30%, 25V, Cer. Disc
CV14	EP31X149	10µf, 10%, 35V, Elect.
CV15	EP25X87	.047µf, 20%, 50V, Polyester
CV16	EP25X87	.047µf, 20%, 50V, Polyester
CV17	EP25X87	.047µf, 20%, 50V, Polyester
CV18	EP18X204	470pf, 10%, 50V, Cer. Disc
CV19	EP18X194	100pf, 10%, 50V, SHiK, Cer. Disc
CV21	EP31X169	100µf, 10%, 35V, Elect.
CV22	EP18X197	1000pf, 20%, 50V, Cer. Disc
CV23	EP25X87	.047µf, 20%, 50V, Polyester
CV24	EP31X141	220µf, 10%, 16V, Elect.
CV25	EP18X169	.01µf, 30%, 25V, Cer. Disc
CV26	EP31X45	47µf, 10%, 16V, Elect.
CV27	EP25X87	.047µf, 20%, 50V, Polyester
CV29	EP25X87	.047µf, 20%, 50V, Polyester
CV30	EP18X194	100pf, 10%, 50V, SHiK, Cer. Disc
CV31	EP25X87	.047µf, 20%, 50V, Polyester
CV32	EP25X87	.047µf, 20%, 50V, Polyester
CV33	EP31X162	100µf, 10%, 16V, Elect.
CV34	EP31X45	47µf, 10%, 16V, Elect.
CV35	EP25X87	.047µf, 20%, 50V, Polyester
CV36	EP18X271	1200pf, 10%, 50V, HiK, Cer. Disc
CV37	EP25X87	.047µf, 20%, 50V, Polyester
CV38	EP18X194	100pf, 10%, 50V, SHiK, Cer. Disc
CV39	EP18X169	.01µf, 30%, 25V, Cer. Disc
CV40	EP18X204	470pf, 10%, 50V, Cer. Disc
CV45	EP31X166	1µf, 20%, 50V, Elect.
CV51	EP18X214	.022µf, 20%, 500V, Cer. Disc

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
RV10	EP14X183	3.3K ohm, 5%, l/4W, Carbon
RV11	ES14X62	l.8K ohm, 5%, l/4W, Carbon
RV12	EP14X243	2.2K ohm, 5%, l/4W, Carbon
RV13	ES14X71	1K ohm, 5%, l/4W, Carbon
RV14	EP14X437	3.9K ohm, 5%, l/4W, Carbon
RV16	ES14X71	1K ohm, 5%, l/4W, Carbon
RV17	ES14X71	1K ohm, 5%, l/4W, Carbon
RV18	EP14X183	3.3K ohm, 5%, l/4W, Carbon
RV19	EP14X304	2.7K ohm, 5%, l/4W, Carbon
RV20	EP14X183	3.3K ohm, 5%, l/4W, Carbon
RV21	EP14X131	47K ohm, 5%, l/4W, Carbon
RV22	EP14X131	47K ohm, 5%, l/4W, Carbon
RV23	ES14X71	1K ohm, 5%, l/4W, Carbon
RV24	EP14X243	2.2K ohm, 5%, l/4W, Carbon
RV25	ES14X71	1K ohm, 5%, l/4W, Carbon
RV26	EP14X131	47K ohm, 5%, l/4W, Carbon
RV27	EP14X129	220 ohm, 5%, l/4W, Carbon
RV28	EP14X131	47K ohm, 5%, l/4W, Carbon
RV29	EP14X103	10K ohm, 5%, l/4W, Carbon
RV30	EP14X414	18K ohm, 5%, l/4W, Carbon
RV31	EP14X103	10K ohm, 5%, l/4W, Carbon
RV32	EP14X140	330K ohm, 5%, l/4W, Carbon
RV33	EP14X438	750K ohm, 5%, l/4W, Carbon
RV34	EP14X424	8.2K ohm, 5%, l/4W, Carbon
RV35	EP14X436	3.6K ohm, 5%, l/4W, Carbon
RV36	EP14X370	9.1K ohm, 5%, l/4W, Carbon
RV37	ES14X71	1K ohm, 5%, l/4W, Carbon
RV40	EP14X131	47K ohm, 5%, l/4W, Carbon
RV41	EP14X424	8.2K ohm, 5%, l/4W, Carbon
RV42	EP14X289	430 ohm, 5%, l/4W, Carbon
RV43	ES14X70	100 ohm, 5%, l/4W, Carbon
RV44	EP14X379	5.6K ohm, 5%, l/4W, Carbon
RV45	EP14X398	15K ohm, 5%, l/4W, Carbon
RV46	EP14X437	3.9K ohm, 5%, l/4W, Carbon
RV47	EP14X103	10K ohm, 5%, l/4W, Carbon
RV48	ES14X58	470 ohm, 5%, l/4W, Carbon
RV49	ES14X71	1K ohm, 5%, l/4W, Carbon
RV50	EP14X424	8.2K ohm, 5%, l/4W, Carbon
RV51	EP14X419	30K ohm, 5%, l/4W, Carbon
RV52	EP14X136	33K ohm, 5%, l/4W, Carbon
RV53	EP14X409	10 ohm, 5%, l/4W, Carbon
RV55	ES14X71	1K ohm, 5%, l/4W, Carbon
RV56	ES14X71	1K ohm, 5%, l/4W, Carbon
RV57	ES14X64	2K ohm, 5%, l/4W, Carbon

POTENTIOMETERS

REF. NO.	PART NO.	DESCRIPTION
RV15	EP49X472	5K ohm, 20%
RV39	EP49X472	5K ohm, 20%

INTEGRATED CIRCUIT

REF. NO.	PART NO.	DESCRIPTION
ICV10	EP84X60	MONO

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
QV10	EP15X88	NPN, Silicon
QV11	EP15X88	NPN, Silicon
QV12	EP15X88	NPN, Silicon
QV13	EP15X88	NPN, Silicon
QV14	EP15X88	NPN, Silicon
QV15	EP15X48	PNP, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
YV10	EU16X11	Silicon
YV11	EU16X11	Silicon
YV12	EU16X11	Silicon
YV13	EU16X11	Silicon
YV14	EU16X11	Silicon
YV15	EP16X19	Zener, 1W

COIL

REF. NO.	PART NO.	DESCRIPTION
LV50	EP36X33	CHOKE-56uh, 5%

19" and 25" PM–C CHASSIS REPLACEMENT PARTS LIST

IMPORTANT SAFETY NOTICE

Product safety should be considered when component replacement is made in any area of a receiver. The (★) beside a part in the parts list and the shaded areas of the schematic diagram designates components in which safety can be of special significance. It is particularly recommended that exact cataloged parts be used for replacement of components which are designated by a (★) in the parts list and the shaded areas on the schematic diagram. Use of substitute replacement parts which do not have the same safety characteristics as recommended in factory service information may create Shock, Fire or other hazards, or excessive X-Radiation.

19" PM-C CHASSIS

CIRCUIT BOARD ASSEMBLIES

PART NO.	DESCRIPTION
EP93X513	AUDIO CIRCUIT BOARD (2 Watt Units)
EP93X522	AUDIO/VIDEO CIRCUIT BOARD (5 & 10 Watt Units)
EP93X435	COMB FILTER CIRCUIT BOARD
EP93X512	STEREO AMPLIFIER CIRCUIT BOARD (2, 5 & 10 Watt Units)
EP93X523	HORIZ HEAT SINK CIRCUIT BOARD
EP93X514	POWER SUPPLY CIRCUIT BOARD (2 Watt Units)
EP93X515	POWER SUPPLY CIRCUIT BOARD (5 & 10 Watt Units)
EP93X526	RGB CIRCUIT BOARD
EP93X561	SIGNAL CIRCUIT BOARD
EP93X438	SOUND PLUS CIRCUIT BOARD
EP93X520	SWEEP CIRCUIT BOARD
EP93X462	VIR CIRCUIT BOARD

CHASSIS

PARTS NOT ON CIRCUIT BOARDS

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
★C940	EP25X184	4700pf, 20%, 125VAC, Polyester
★C941	EP25X184	4700pf, 20%, 125VAC, Polyester
C4000	EP31X106	3.3µf, 20%, 25V, Bi Polar, Elect.
C4001	EP31X106	3.3µf, 20%, 25V, Bi Polar, Elect.
C4002	EP22X32	.01µf, 20%, 500V, Hik, Cer. Disc
C5001	EP31X70	1000µf, +100-10%, 40V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
AR230	EP14X369	12 ohm, 5%, 1/2W, Metal Oxide
★R929	EP14X365	1.8 meg ohm, 10%, 1/2W, Carbon
★R930	EP14X365	1.8 meg ohm, 10%, 1/2W, Carbon
R4000	EP14X402	300 ohm, 5%, 1/2W, Carbon
R4001	ES14X59	560 ohm, 5%, 1/2W, Carbon
R4002	ES14X59	560 ohm, 5%, 1/2W, Carbon
R4010	EP14X381	3K ohm, 5%, l/4W, Carbon
R4200	ES14X61	820 ohm, 5%, l/4W, Carbon
R5000	EP14X103	10K ohm, 5%, 1/2W, Carbon
R5001	EP14X103	10K ohm, 5%, 1/2W, Carbon
R5002	EP14X338	20K ohm, 5%, 1/2W, Carbon (2 Watt)
R5002	EP14X103	10K ohm, 5%, 1/2W, Carbon (10 Watt)
R5003	EP14X103	10K ohm, 5%, 1/2W, Carbon
R5004	EP14X103	10K ohm, 5%, 1/2W, Carbon
R5005	EP14X127	82 ohm, 5%, 1/2W, Carbon
R5010	EP14X381	3K ohm, 5%, l/4W, Carbon
R5020	EP14X295	910 ohm, 5%, 1/2W, Carbon
R5021	ES14X67	100 ohm, 5%, 1/2W, Carbon
R5022	EP14X295	910 ohm, 5%, 1/2W, Carbon
R5023	ES14X67	100 ohm, 5%, 1/2W, Carbon

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
R5010	EP49X488	AUDIO-50K ohm, 20%
R5260	EP49X395	SHARPNESS-1K ohm, 20%

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y01	ES16X27	Silicon
Y02	ES16X27	Silicon
AY212	EP57X4	Rectifier, Silicon
AY213	EP57X4	Rectifier, Silicon

COILS & TRANSFORMER

REF. NO.	PART NO.	DESCRIPTION
	EP36X462	COIL-Degaussing
	EP42X8	CONVERGENCE ASM.
★	EP76X38	YOKE ASM
L50	ES36X82	CHOKE-220µh, 10%
L5000	EP36X471	CHOKE-.33µh, 20%, (10 Watt)
L5001	EP36X436	CHOKE-Filament

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
	EP2X548	ANODE RETAINER-Clip
	EP92X116	BRACKET-Chassis Frame, Front, Plastic
	EP92X117	BRACKET-Chassis Frame, Rear, Plastic
	EP92X119	BRACKET-Sound Plus & Audio/Video Board Mounting, Plastic
	EP92X123	BRACKET-Module Mounting, Plastic

(CONTINUED)

19" and 25" PM-C Parts List (Cont.)

Symbol	Part No.	Description
	EP2X542	BRACKET-VIR Board Support, Plastic (2 Used)
	EP92X124	BRACKET-Rear Circuit Board Mounting, Plastic
	EP8X108	CABLE-7" Antenna To Tuner, W/Phono Plug And Screw Connector
	EP8X97	CABLE-11" W/2 Phono Plugs UHF/VHF To Tuner Control Board
	EP8X103	CABLE-20" Long W/2 Phono Plugs
	ES3X29	CLIP-Antenna Terminal
	EP2X545	CLIP-Chassis Mounting (2 Used)
	EP2X540	CLIP-Power Cord Retainer
RL1	EP8X67	CONNECTOR-4 Pos.
RL2	EP8X90	CONNECTOR-5 Pos.
RL3	EP8X84	CONNECTOR-6 Pos.
RL5	EP8X66	CONNECTOR-7 Pos.
RL6	EP8X66	CONNECTOR-7 Pos.
RL7	EP8X68	CONNECTOR-2 Pos.
PG12	EP8X30	CONNECTOR-1 Pin
RL14	EP8X65	CONNECTOR-3 Pos.
RL17	EP8X90	CONNECTOR-5 Pos.
RL22	EP8X91	CONNECTOR-9 Pos.
RL23	EP8X68	CONNECTOR-2 Pos.
PG24	EP8X43	CONNECTOR-2 Pins
RL28	EP8X42	CONNECTOR-4 Pins
RL31	EP8X90	CONNECTOR-5 Pos.
PG32	EP8X43	CONNECTOR-2 Pins
PG33/RL33	EP8X30	CONNECTOR-1 Pin
RL52	EP8X90	CONNECTOR-3 Pos.
RL53	EP8X66	CONNECTOR-7 Pos.
PG57/RL57	EP8X43	CONNECTOR-2 Pins
RL57	EP8X44	CONNECTOR-6 Pos.
RL58	EP8X43	CONNECTOR-2 Pins
RL59	EP8X43	CONNECTOR-2 Pins
RL62	EP8X66	CONNECTOR-7 Pos.
RL64	EP8X94	CONNECTOR-4 Pos.
RL68	EP8X67	CONNECTOR-4 Pos.
RL72	EP8X92	CONNECTOR-10 Pos.
RL73	EP8X90	CONNECTOR-5 Pos.
RL74	EP8X94	CONNECTOR-4 Pos.
RL78	EP8X90	CONNECTOR-3 Pins
RL79	EP8X94	CONNECTOR-4 Pos.
RL80	EP8X71	CONNECTOR-6 Pos.
PG81	EP8X30	CONNECTOR-1 Pin
RL82	EP8X65	CONNECTOR-3 Pos.
RL83	EP8X65	CONNECTOR-3 Pos.
PG84	EP8X30	CONNECTOR-1 Pin
RL85/PG85	EP8X44	CONNECTOR-6 Pins
PG100/ RL100	EP8X44	CONNECTOR-6 Pins
PG101	EP8X88	CONNECTOR-5 Pins
RL212	EP8X92	CONNECTOR-8 Pos.
RL225	EP8X68	CONNECTOR-2 Pins
RL244B	EP8X91	CONNECTOR-9 Pos.
PG250/ RL250	EP8X43	CONNECTOR-2 Pins
RL251	EP8X92	CONNECTOR-8 Pos.
	★EP66X19	CORD-AC Power, Polarized
	EP2X577	COVER-Power Supply Board, Plastic
	EP3X53	CUSHION-Yoke Wedge (3 Used)
	EP3X54	CUSHION-Switch Pads, Foam
	EP2X580	GUIDE-For Screen Control (Plastic Tube)
	EP2X573	HINGE-For Servicing Top Rear Boards, Leftside, Plastic
	EP2X600	HINGE-For Servicing Top Rear Boards, Rightside, Plastic
J4000	EP8X128	JACK-Telephone Type
J5001	EP8X127	JACK-Video 1, Phono Type
J5002	EP8X127	JACK-Audio Left, Phono Type
J5003	EP8X127	JACK-Audio Right, Phono Type
J5004	EP8X127	JACK-Video 2, Phono Type
J5005	EP8X127	JACK-Audio Left, Phono Type
J5006	EP8X127	JACK-Audio Right, Phono Type
J5007	EP8X127	JACK-Video Out, Phono Type
J5008	EP8X127	JACK-Fix Audio Out Left, Phono Type
J5009	EP8X127	JACK-Fix Audio Out Right, Phono Type
J5015/ J5016	EP8X127	JACK-External Amplifiers, Phono Type
J5102	EP8X127	JACK-Stereo IF Input, Phono Type
J5200/ J5201	EP8X119	JACK-External Speakers, Telephone Type
	EP2X590	RETAINER-Cord Holder, Plastic
	EP2X581	RETAINER-CRT Ground Hook, Lexan (2 Used)
	EP2X578	RETAINER-Circuit Board Hold Down, Lexan
	EP2X579	RETAINER-Circuit Board Hold Down Dual, Plastic
	EP69X35	SHAFT-Extention For Focus, Plastic
J01	EP34X71	SOCKET-8 Pins, Din
J5100	EP34X70	SOCKET-External Stereo, 8-Pins
	EP2X534	SPRING-CRT Ground
S5300	EP39X204	SWITCH-On/Off External Amplifiers, Slide Type, DPDT
SW5008	EP39X146	SWITCH-Cable Select, Slide Type
	EP3X54	SWITCH PADS-Foam (MP130)
	EP3X38	WASHER-Spacer
	EP90X3	WIRE TIE

(CONTINUED)

19" and 25" PM-C Parts List (Cont.)

25" PM-C CHASSIS

CIRCUIT BOARD ASSEMBLIES

PART NO.	DESCRIPTION
EP93X513	AUDIO CIRCUIT BOARD (2 Watt Units)
EP93X522	AUDIO/VIDEO CIRCUIT BOARD (5 & 10 Watt Units)
EP93X435	COMB FILTER CIRCUIT BOARD
EP93X512	STEREO AMPLIFIER CIRCUIT BOARD (2, 5 & 10 Watt Units)
EP93X426	HORIZ HEAT SINK CIRCUIT BOARD
EP93X514	POWER SUPPLY CIRCUIT BOARD (2 Watt Units)
EP93X515	POWER SUPPLY CIRCUIT BOARD (5 & 10 Watt Units)
EP93X527	RGB CIRCUIT BOARD
EP93X561	SIGNAL CIRCUIT BOARD
EP93X438	SOUND PLUS CIRCUIT BOARD
EP93X521	SWEEP CIRCUIT BOARD
EP93X462	VIR CIRCUIT BOARD

CHASSIS

PARTS NOT ON CIRCUIT BOARDS

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
★C940	EP25X184	4700pf, 20%, 125VAC, Polyester
★C941	EP25X184	4700pf, 20%, 125VAC, Polyester
C4000	EP31X106	3.3μf, 20%, 25V, Bi Polar, Elect.
C4001	EP31X106	3.3μf, 20%, 25V, Bi Polar, Elect.
C4002	EP22X32	.01μf, 20%, 500V, HiK, Cer. Disc
C5001	EP31X70	1000μf, +100-10%, 40V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
AR230	EP14X369	12 ohm, 5%, 1/2W, Metal Oxide
★R929	EP14X365	1.8 meg ohm, 10%, 1/2W, Carbon
★R930	EP14X365	1.8 meg ohm, 10%, 1/2W, Carbon
R4000	EP14X402	300 ohm, 5%, 1/2W, Carbon
R4001	ES14X59	560 ohm, 5%, 1/2W, Metal Oxide
R4002	ES14X59	560 ohm, 5%, 1/2W, Metal Oxide
R4010	EP14X381	3K ohm, 5%, l/4W, Carbon
R4200	ES14X61	820 ohm, 5%, l/4W, Carbon
R5000	EP14X103	10K ohm, 5%, 1/2W, Carbon
R5001	EP14X103	10K ohm, 5%, 1/2W, Carbon
R5002	EP14X338	20K ohm, 5%, 1/2W, Carbon (2 Watt)
R5002	EP14X103	10K ohm, 5%, 1/2W, Carbon (10 Watt)
R5003	EP14X103	10K ohm, 5%, 1/2W, Carbon
R5004	EP14X103	10K ohm, 5%, 1/2W, Carbon
R5005	EP14X127	82 ohm, 5%, 1/2W, Carbon
R5010	ES14X64	2K ohm, 5%, l/4W, Carbon
R5020	EP14X295	910 ohm, 5%, 1/2W, Carbon
R5021	ES14X67	100 ohm, 5%, 1/2W, Carbon
R5022	EP14X295	910 ohm, 5%, 1/2W, Carbon
R5023	ES14X67	100 ohm, 5%, 1/2W, Carbon

POTENTIOMETERS

REF. NO.	PART NO.	DESCRIPTION
R5010	EP49X458	AUDIO-50K ohm, 20% (Front)
R5011		AUDIO LEVEL-50K ohm, 20% (Rear)
R5260	EP49X395	SHARPNESS-1K ohm, 20%

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y01	ES16X27	Silicon
Y02	ES16X27	Silicon
AY212	EP57X4	Rectifier, Silicon
AY213	EP57X4	Rectifier, Silicon

COILS & TRANSFORMER

REF. NO.	PART NO.	DESCRIPTION
	EP36X469	COIL-Degaussing (2 Used)
	EP42X8	CONVERGENCE ASM.
★	EP76X39	YOKE ASM
L50	ES36X82	CHOKE-220μh, 10%
L5000	EP36X471	CHOKE-.33μh, 20% (10 Watt)
L5001	EP36X436	CHOKE-Filament

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
	EP2X594	BRACKET-CRT Corner Mounting, Lexan
	EP92X116	BRACKET-Chassis Frame, Front, Plastic
	EP92X117	BRACKET-Chassis Frame, Rear, Plastic
	EP92X120	BRACKET-Audio/Video, Tuner Control Board Mounting, Plastic (10 Watt)
	EP92X121	BRACKET-Audio/Video, Tuner Control Board Mounting, Plastic (25PMB880K & 25PM4880K Only)
	EP92X119	BRACKET-Sound Plus, Audio/Video Board Mounting, Plastic
	EP2X542	BRACKET-VIR Board Support, Plastic (2 Used)
	EP2X600	BRACKET-Ultra Vision Window Brace, Plastic (6 Used)
	EP8X108	CABLE-7" Antenna To Tuner, W/Phono Plug And Screw Connector
	EP8X96	CABLE-15" Antenna To Tuner, W/Phono Plug And Screw Connector
	EP8X97	CABLE-UHF/VHF To Tuner Control Board, 13" W/2 Phono Plugs
	EP8X103	CABLE-UHF/VHF To Tuner Control Board, 20" W/2 Phono Plugs
	EP2X548	CLIP-Anode Retainer
	ES3X29	CLIP-Antenna Terminal

(CONTINUED)

19" and 25" PM-C Parts List (Cont.)

	EP2X540	CLIP-Power Cord Retainer
RL1	EP8X67	CONNECTOR-4 Pos.
RL2	EP8X90	CONNECTOR-5 Pos.
RL3	EP8X84	CONNECTOR-6 Pos.
PG5	EP8X66	CONNECTOR-7 Pos.
PG5	EP8X44	CONNECTOR-6 Pos.
RL6	EP8X66	CONNECTOR-7 Pos.
RL7	EP8X68	CONNECTOR-2 Pins
RL7A	EP8X68	CONNECTOR-2 Pins
PG12	EP8X30	CONNECTOR-1 Pin
RL14	EP8X65	CONNECTOR-3 Pos.
RL17	EP8X90	CONNECTOR-5 Pos.
RL22	EP8X91	CONNECTOR-9 Pos.
RL23	EP8X68	CONNECTOR-2 Pos.
PG24	EP8X43	CONNECTOR-2 Pins
RL28	EP8X42	CONNECTOR-4 Pins
RL31	EP8X90	CONNECTOR-5 Pos.
PG32	EP8X43	CONNECTOR-2 Pins
PG32	EP8X30	CONNECTOR-1 Pin
PG33/RL33	EP8X30	CONNECTOR-1 Pin
RL33	EP8X92	CONNECTOR-10 Pos.
RL50	EP8X67	CONNECTOR-4 Pos.
PG51	EP8X43	CONNECTOR-2 Pins
RL52	EP8X90	CONNECTOR-3 Pos.
RL53	EP8X44	CONNECTOR-6 Pins
RL60A	EP8X90	CONNECTOR-5 Pos.
RL62	EP8X66	CONNECTOR-7 Pos.
RL64	EP8X94	CONNECTOR-4 Pos.
RL68	EP8X67	CONNECTOR-4 Pos.
RL70	EP8X90	CONNECTOR-3 Pos.
RL72	EP8X92	CONNECTOR-10 Pos.
RL73	EP8X90	CONNECTOR-3 Pos.
RL74	EP8X94	CONNECTOR-4 Pos.
RL78	EP8X90	CONNECTOR-3 Pos.
RL79	EP8X94	CONNECTOR-4 Pos.
RL80	EP8X71	CONNECTOR-6 Pos.
PG81/RL81	EP8X30	CONNECTOR-1 Pin
RL82	EP8X65	CONNECTOR-3 Pos.
RL83	EP8X65	CONNECTOR-3 Pos.
PG84/RL84	EP8X30	CONNECTOR-1 Pin
RL85	EP8X44	CONNECTOR-6 Pins
RL/PG100	EP8X44	CONNECTOR-6 Pins
RL/PG100	EP8X94	CONNECTOR-7 Pins
RL244B	EP8X91	CONNECTOR-9 Pos.
RL245A/B	EP8X67	CONNECTOR-4 Pos.
RL/PG250	EP8X43	CONNECTOR-2 Pins
	★EP66X19	CORD-AC Power, Polarized
	EP2X577	COVER-Power Supply Board, Plastic
	EP3X53	CUSHION-Yoke Wedge
	EP2X580	GUIDE-For Screen Control (Plastic Tube)
	EP2X592	GUIDE-For Ultra-Vision Window, Plastic
	EP2X573	HINGE-For Servicing Top Rear Boards, Leftside, Plastic
	EP2X601	HINGE-For Servicing Top Rear Boards, Rightside, Plastic
J4000	EP8X128	JACK-Headphone
J5001	EP8X127	JACK-Video I, Phono Type
J5002	EP8X127	JACK-Audio Left, Phono Type
J5003	EP8X127	JACK-Audio Right, Phono Type
J5004	EP8X127	JACK-Video II, Phono Type
J5005	EP8X127	JACK-Audio Left, Phono Type
J5006	EP8X127	JACK-Audio Right, Phono Type
J5007	EP8X127	JACK-Video Out, Phono Type
J5008	EP8X127	JACK-Fix Audio Out Left, Phono Type
J5009	EP8X127	JACK-Fix Audio Out Right, Phono Type
J5015/ J5016	EP8X127	JACK-External Amplifiers, Phono Type
J5102	EP8X127	JACK-Stereo IF Input, Phono Type
J5200/ J5201	EP8X119	JACK-External Speakers, Telephone Type
	EP2X578	RETAINER-Circuit Board Hold Down, Lexan (2 Used)
	EP2X579	RETAINER-Circuit Board Hold Down Dual, Plastic (1 Used)
	EP2X590	RETAINER-Power Cord Holder, Plastic
	EP69X35	SHAFT-Extention For Focus, Plastic
J01	EP34X71	SOCKET-8 Pin Din
J5100	EP34X70	SOCKET-External Stereo, 8-Pins

(CONTINUED)

19" and 25" PM-C Parts List (Cont.)

	EP3X56	SPRING-CRT Ground
SW5008	EP39X146	SWITCH-Cable Select, Slide Type
	EP3X54	SWITCH PADS-Foam (MP130)
	EP3X38	WASHER-Spacer
	EP90X3	WIRE TIE

PM-C

2 WATT AUDIO CIRCUIT BOARD

EP93X513

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C179	EP31X177	470µf, 20%, 50V, Elect.
C187	EP31X177	470µf, 20%, 50V, Elect.
C188	EP25X171	.033µf, 10%, 50V, Polyester
C189	EP25X63	.082µf, 10%, 50V, Polyester
C190	EP31X149	10µf, 20%, 35V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R184	EP14X345	68K ohm, 2%, l/8W, Carbon
R185	EP14X364	1K ohm, 2%, l/2W, Carbon
R187	EP14X436	3.6K ohm, 2%, l/8W, Carbon
R189	EP14X344	39 ohm, 5%, l/4W, Carbon
★R190	EP14X342	39 ohm, 10%, 3W, Flame Proof
R191	ES14X58	470 ohm, 5%, 1/2W, Carbon
R192	ES14X80	2.2 ohm, 5%, 1/2W, Carbon
R193	ES14X80	2.2 ohm, 5%, 1/2W, Carbon
R198	ES14X65	4.7K ohm, 5%, l/4W, Carbon

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q194	EP15X88	DRIVER-NPN, Silicon
Q195	EP15X222	POWER OUTPUT-PNP, Silicon
Q196	EP15X221	POWER OUTPUT-NPN, Silicon

DIODE

REF. NO.	PART NO.	DESCRIPTION
Y111	ES16X27	Silicon

PM-C

AUDIO/VIDEO CIRCUIT BOARD

EP93X522

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
VC01	EU18X9	39pf, 5%, 50V, Cer. Disc
VC02	EP31X166	1µf, 20%, 50V, Elect.
VC04	EU18X9	39pf, 5%, 50V, Cer. Disc
VC05	EP31X166	1µf, 20%, 50V, Elect.
VC06	EU18X9	39pf, 5%, 50V, Cer. Disc
VC07	EP31X166	1µf, 20%, 50V, Elect.
VC10	EU18X9	39pf, 5%, 50V, Cer. Disc
VC11	EP31X166	1µf, 20%, 50V, Elect.
VC12	EU18X9	39pf, 5%, 50V, Cer. Disc
VC13	EP31X166	1µf, 20%, 50V, Elect.
VC14	EU18X9	39pf, 5%, 50V, Cer. Disc
VC15	EP31X166	1µf, 20%, 50V, Elect.
VC16	EP31X162	100µf, 20%, 25V, Elect.
VC23	EP18X206	.022µf, 30%, 25V, HiK, Cer. Disc
VC24	EP18X206	.022µf, 30%, 25V, HiK, Cer. Disc
VC25	EP18X206	.022µf, 30%, 25V, HiK, Cer. Disc
VC26	EP18X206	.022µf, 30%, 25V, HiK, Cer. Disc
VC27	EP18X206	.022µf, 30%, 25V, HiK, Cer. Disc
VC28	EP18X206	.022µf, 30%, 25V, HiK, Cer. Disc
VC29	EP18X206	.022µf, 30%, 25V, HiK, Cer. Disc
VC30	EP18X206	.022µf, 30%, 25V, HiK, Cer. Disc
VC31	EP18X206	.022µf, 30%, 25V, HiK, Cer. Disc
VC32	EP18X206	.022µf, 30%, 25V, HiK, Cer. Disc
VC33	EP18X206	.022µf, 30%, 25V, HiK, Cer. Disc
VC34	EP18X206	.022µf, 30%, 25V, HiK, Cer. Disc
VC35	EP18X206	.022µf, 30%, 25V, HiK, Cer. Disc
VC36	EP18X206	.022µf, 30%, 25V, HiK, Cer. Disc
VC39	EP31X149	10µf, 20%, 35V, Elect.
VC40	EP31X149	10µf, 20%, 35V, Elect.
VC41	EP25X77	.1µf, 10%, 50V, Polyester
VC44	EP31X149	10µf, 20%, 35V, Elect.
VC45	EP31X149	10µf, 20%, 35V, Elect.
VC46	EP31X163	47µf, 20%, 16V, Elect.
VC47	EP25X168	.12µf, 10%, 50V, Polyester
VC48	EP25X165	4700pf, 10%, 50V, Polyester
VC49	EP25X165	4700pf, 10%, 50V, Polyester
VC50	EP25X168	.12µf, 10%, 50V, Polyester
VC53	EP31X162	100µf, 20%, 25V, Elect.
VC54	EP31X163	47µf, 20%, 16V, Elect.
VC55	EP31X149	10µf, 20%, 35V, Elect.
VC56	EP31X149	10µf, 20%, 35V, Elect.
VC57	EP31X168	220µf, 20%, 6.3V, Elect.
VC58	EP31X149	10µf, 20%, 35V, Elect.
VC59	EP31X149	10µf, 20%, 35V, Elect.
VC60	EP31X168	220µf, 20%, 6.3V, Elect.
VC61	EP31X170	4.7µf, 20%, 35V, Elect.
VC62	EP31X170	4.7µf, 20%, 35V, Elect.
VC63	EP31X170	4.7µf, 20%, 35V, Elect.
VC64	EP31X172	22µf, 20%, 25V, Elect.
VC65	EP31X170	4.7µf, 20%, 35V, Elect.
VC66	EP31X170	4.7µf, 20%, 35V, Elect.
VC67	EP31X170	4.7µf, 20%, 35V, Elect.
VC68	EP31X170	4.7µf, 20%, 35V, Elect.
VC69	EP31X163	47µf, 20%, 16V, Elect.
VC70	EP31X172	22µf, 20%, 25V, Elect.
VC73	EP31X173	2.2µf, 20%, 50V, Elect.
VC74	EP31X149	10µf, 20%, 35V, Elect.
VC76	EP18X118	.1µf, +30-80%, 25V, HiK, Cer. Disc
VC77	EP25X95	.22µf, 10%, 50V, Polyester
VC85	EP31X150	10µf, 20%, 50V, Elect.
VC88A	EP31X183	4.7µf, +100-10%, 25V, Elect.
VC100	ES31X37	2200µf, 20%, 16V, Elect.
VC200	EP18X118	.1µf, +30-80%, 25V, HiK, Cer. Disc
VC201	EP18X118	.1µf, +30-80%, 25V, HiK, Cer Disc
VC202	EP18X118	.1µf, +30-80%, 25V, HiK, Cer Disc
VC203	EP18X118	.1µf, +30-80%, 25V, HiK, Cer Disc

(CONTINUED)

19" and 25" PM-C Parts List (Cont.)

VC204	EP18X118	.1µf, +30-80%, 25V, HiK, Cer. Disc
VC205	EP18X118	.1µf, +30-80%, 25V, HiK, Cer. Disc
VC206	EP31X162	100µf, 20%, 25V, Elect.
VC207	EP18X118	.1µf, +30-80%, 25V, HiK, Cer. Disc
VC208	EP18X118	.1µf, +30-80%, 25V, HiK, Cer. Disc
VC209	EP18X118	.1µf, +30-80%, 25V, HiK, Cer. Disc
VC210	EP18X118	.1µf, +30-80%, 25V, HiK, Cer. Disc
VC211	EP18X118	.1µf, +30-80%, 25V, HiK, Cer. Disc
VC300	EP18X118	.1µf, +30-80%, 25V, HiK, Cer. Disc
VC302	EP18X118	.1µf, +30-80%, 25V, HiK, Cer. Disc
VC304	EP31X157	220µf, 20%, 50V, Elect

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
VR01	EP14X103	10K ohm, 5%, I/4W, Carbon
VR03	EP14X133	470K ohm, 5%, I/4W, Carbon
VR04	EP14X103	10K ohm, 5%, I/4W, Carbon
VR06	EP14X133	470K ohm, 5%, I/4W, Carbon
VR09	EP14X381	3K ohm, 5%, I/4W, Carbon
VR10	EP14X414	18K ohm, 5%, I/4W, Carbon
VR11	EP14X133	470K ohm, 5%, I/4W, Carbon
VR12	EP14X381	3K ohm, 5%, I/4W, Carbon
VR13	EP14X414	18K ohm, 5%, I/4W, Carbon
VR14	EP14X133	470K ohm, 5%, I/8W, Carbon
VR17	EP14X103	10K ohm, 5%, I/4W, Carbon
VR18	EP14X103	10K ohm, 5%, I/4W, Carbon
VR19	EP14X133	470K ohm, 5%, I/4W, Carbon
VR20	EP14X103	10K ohm, 5%, I/4W, Carbon
VR21	EP14X103	10K ohm, 5%, I/4W, Carbon
VR22	EP14X133	470K ohm, 5%, I/8W, Carbon
VR30	EP14X131	47K ohm, 5%, I/4W, Carbon
VR32	EP14X131	47K ohm, 5%, I/4W, Carbon
VR45	EP14X418	5.1K ohm, 5%, I/4W, Carbon
VR57	EP14X404	51 ohm, 5%, I/4W, Carbon
VR58	EP14X380	27 ohm, 5%, I/4W, Carbon
VR59	EP14X165	75 ohm, 5%, I/4W, Carbon
VR62	ES14X70	100 ohm, 5%, I/4W, Carbon
VR63	ES14X64	2K ohm, 5%, I/4W, Carbon
VR64	ES14X64	2K ohm, 5%, I/4W, Carbon
VR65	EP14X432	70 ohm, 5%, 7W, Wirewound
VR66	EP14X105	100K ohm, 5%, I/4W, Carbon
VR67	EP14X105	100K ohm, 5%, I/4W, Carbon
VR68	ES14X62	1.5K ohm, 5%, I/4W, Carbon
VR69	ES14X62	1.5K ohm, 5%, I/4W, Carbon
VR72	ES14X62	1.5K ohm, 5%, I/4W, Carbon
VR73	EP14X400	2.7K ohm, 5%, 1/4W, Carbon
VR74	EP14X183	3.3K ohm, 5%, I/4W, Carbon
VR75	EP14X103	10K ohm, 5%, I/4W, Carbon
VR76	ES14X71	1K ohm, 5%, I/4W, Carbon
VR77	ES14X58	470 ohm, 5%, I/4W, Carbon
VR78	EP14X414	18K ohm, 5%, I/4W, Carbon
VR79	EP14X420	270 ohm, 5%, I/4W, Carbon
VR82	EP14X183	3.3K ohm, 5%, I/4W, Carbon
VR83	EP14X103	10K ohm, 5%, I/4W, Carbon
VR84	ES14X71	1K ohm, 5%, I/4W, Carbon
VR85	ES14X58	470 ohm, 5%, I/4W, Carbon
VR86	EP14X414	18K ohm, 5%, I/4W, Carbon
VR87	EP14X420	270 ohm, 5%, I/4W, Carbon
VR90	EP14X398	15K ohm, 5%, I/4W, Carbon
VR91	EP14X398	15K ohm, 5%, I/4W, Carbon
VR92	EP14X398	15K ohm, 5%, I/4W, Carbon
VR93	EP14X104	22K ohm, 5%, I/4W, Carbon
VR94	EP14X103	10K ohm, 5%, I/4W, Carbon
VR95	EP14X131	47K ohm, 5%, I/4W, Carbon
VR96	EP14X119	68K ohm, 5%, I/4W, Carbon
VR97	EP14X103	10K ohm, 5%, I/4W, Carbon
VR100	EP14X131	47K ohm, 5%, I/4W, Carbon
VR101	EP14X119	68K ohm, 5%, I/4W, Carbon
VR102	EP14X103	10K ohm, 5%, I/8W, Carbon
VR103	EP14X103	10K ohm, 5%, I/4W, Carbon
VR104	EP14X103	10K ohm, 5%, I/4W, Carbon
VR105	ES14X62	1.5K ohm, 5%, I/4W, Carbon
VR106	ES14X62	1.5K ohm, 5%, I/4W, Carbon
VR107	EP14X103	10K ohm, 5%, I/4W, Carbon
VR108	EP14X104	22K ohm, 5%, I/4W, Carbon
VR110	ES14X65	4.7K ohm, 5%, I/4W, Carbon
VR111	ES14X70	100 ohm, 5%, I/4W, Carbon
VR112	EP14X433	300K ohm, 5%, I/4W, Carbon
VR113	EP14X303	22K ohm, 5%, I/8W, Carbon
VR114	EP14X393	130K ohm, 5%, I/4W, Carbon
VR115	EP14X398	15K ohm, 5%, I/4W, Carbon
VR116	EP14X415	82K ohm, 5%, I/4W, Carbon
VR117	EP14X284	12K ohm, 5%, I/8W, Carbon
VR124	EP14X285	15K ohm, 5%, I/8W, Carbon
VR130	EP14X436	3.6K ohm, 5%, 1/4W, Carbon
VR131	EP14X394	6.2K ohm, 5%, I/4W, Carbon
VR132	EP14X436	3.6K ohm, 5%, 1/4W, Carbon
VR133	EP14X394	6.2K ohm, 5%, I/4W, Carbon
VR134	EP14X436	3.6K ohm, 5%, 1/4W, Carbon
VR135	EP14X394	6.2K ohm, 5%, I/4W, Carbon
VR150	EP14X103	10K ohm, 5%, 1/4W, Carbon
VR151	EP14X103	10K ohm, 5%, 1/4W, Carbon
VR199	ES14X71	1K ohm, 5%, 1/4W, Carbon
VR200	EP14X131	47K ohm, 5%, 1/4W, Carbon
VR202	EP14X131	47K ohm, 5%, 1/4W, Carbon
VR203	EP14X131	47K ohm, 5%, 1/4W, Carbon
VR204	EP14X131	47K ohm, 5%, 1/4W, Carbon
VR205	EP14X103	10K ohm, 5%, 1/4W, Carbon
VR206	EP14X131	47K ohm, 5%, 1/4W, Carbon
VR207	EP14X131	47K ohm, 5%, 1/4W, Carbon
VR208	EP14X103	10K ohm, 5%, 1/4W, Carbon
VR209	EP14X131	47K ohm, 5%, 1/4W, Carbon
VR210	EP14X104	22K ohm, 5%, 1/4W, Carbon
VR211	EP14X105	100K ohm, 5%, 1/4W, Carbon
VR212	ES14X71	1K ohm, 5%, 1/4W, Carbon
VR213	EP14X243	2.2K ohm, 5%, 1/4W, Carbon
VR214	EP14X379	5.6K ohm, 5%, 1/4W, Carbon
VR215	EP14X105	100K ohm, 5%, 1/4W, Carbon
VR217	EP14X435	43 ohm, 5%, 1/2W, Carbon
VR218	EP14X434	39 ohm, 5%, 1/2W, Carbon
VR219	EP14X404	51 ohm, 5%, 1/2W, Carbon
VR220	EP14X404	51 ohm, 5%, 1/2W, Carbon
VR221	EP14X131	47K ohm, 5%, 1/4W, Carbon
VR222	EP14X131	47K ohm, 5%, 1/4W, Carbon
VR223	EP14X434	39 ohm, 5%, 1/2W, Carbon
VR224	ES14X56	33 ohm, 5%, 1/2W, Carbon
VR225	EP14X131	47K ohm, 5%, 1/4W, Carbon
VR226	ES14X71	1K ohm, 5%, 1/4W, Carbon
VR227	ES14X71	1K ohm, 5%, 1/4W, Carbon
VR228	EP14X389	91 ohm, 5%, 1/4W, Carbon
VR300	EP14X368	1.6K ohm, 5%, 1/4W, Carbon
VR301	EP14X368	1.6K ohm, 5%, 1/4W, Carbon
VR302	EP14X368	1.6K ohm, 5%, 1/4W, Carbon
VR303	EP14X368	1.6K ohm, 5%, 1/4W, Carbon

(CONTINUED)

19" and 25" PM-C Parts List (Cont.)

INTEGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
VIC1	EP84X143	AUDIO SWITCHING
VIC2	EP84X229	AUDIO CONTROL
VIC3	EP84X228	VIDEO SWITCH
VIC4	EP84X217	3 TERMINAL VOL REG.
VIC200	EP84X241	DAUL MULTVIB
VIC201	EP84X240	TRIGGER CMOS
VIC202	EP84X242	DECADE COUTR

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
VQ14	EP15X86	EXT. VIDEO CONTROL-NPN, Silicon
VQ15	EP15X86	EXT. AMP-NPN, Silicon
VQ16	EP15X86	EXT. AMP-NPN, Silicon
VQ20	EP15X86	MUTE-NPN, Silicon
VQ21	EP15X86	AUDIO BUFFER RIGHT-NPN, Silicon
VQ22	EP15X86	AUDIO BUFFER LEFT-NPN, Silicon
VQ23	EP15X86	MUTE-NPN, Silicon
VQ25	EP15X86	LOUDNESS-NPN, Silicon
VQ26	EP15X86	VOL. CONTROL-NPN, Silicon
VQ200	EP15X86	SILICON, NPN
VQ201	EP15X86	SILICON, NPN
VQ202	EP15X48	SILICON, PNP
VQ203	EP15X225	SILICON, PNP
VQ204	EP15X109	SILICON, NPN
VQ205	EP15X109	SILICON, NPN

DIODES

REF. NO.	PART NO.	DESCRIPTION
VY1	ES16X27	Silicon
VY2	ES16X27	Silicon
VY3	ES16X27	Silicon
VY4	ES16X27	Silicon
VY5	ES16X27	Silicon
VY6	ES16X27	Silicon
VY7	ES16X27	Silicon
VY8	ES16X27	Silicon
VY9	ES16X27	Silicon
VY12	ES16X27	Silicon
VY20	ES16X27	Silicon
VY21	ES16X27	Silicon
VY22	ES16X27	Silicon
VY23	ES16X27	Silicon
VY24	ES16X27	Silicon
VY26	ES16X27	Silicon
VY27	ES16X27	Silicon
VY29	ES16X27	Silicon
VY30	ES16X27	Silicon
VY31	ES16X27	Silicon
VY32	ES16X27	Silicon
VY33	ES16X27	Silicon
VY34	ES16X27	Silicon
VY36	EP57X4	Rectifier
VY37	EP57X4	Rectifier
VY52	EP16X58	Zener
VY53	EP16X58	Zener
VY54	EP16X19	Zener, 1W, 5.6V
VY58	EP16X58	Zener, 17V
VY59	EP16X58	Zener, 17V
VY60	EP16X58	Zener, 17V
VY100	ES16X27	Silicon
VY101	ES16X27	Silicon
VY102	ES16X27	Silicon
VY103	EP16X31	Zener, 13V
VY104	ES16X27	Silicon
VY105	ES16X27	Silicon
VY106	ES16X27	Silicon
VY107	ES16X27	Silicon
VY108	ES16X27	Silicon
VY109	ES16X27	Silicon
VY110	ES16X27	Silicon
VY111	ES16X27	Silicon
VY112	ES16X27	Silicon
VY113	ES16X27	Silicon
VY114	ES16X27	Silicon
VY115	ES16X27	Silicon
VY116	ES16X27	Silicon
VY117	EP57X4	Rectifier
VY118	EP57X4	Rectifier
VY119	EP57X4	Rectifier
VY120	EP57X4	Rectifier
VY121	EP57X4	Rectifier
VY122	EP57X4	Rectifier
VY123	EP57X4	Rectifier
VY124	EP57X4	Rectifier
VY125	EP57X4	Rectifier
VY126	EP16X58	Zener
VY128	ES16X27	Silicon
VY129	EP57X4	Rectifier
VY130	EP57X4	Rectifier

COIL

REF. NO.	PART NO.	DESCRIPTION
VL921	EP36X436	CHOKE—Filament

PM-A/B/C/D

COMB FILTER CIRCUIT BOARD

EP93X435

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C601	EP31X170	4.7µf, 20%, 35V, Elect
C602	ES25X6	4700pf, 5%, 50V, Polyester
C603	EP18X206	.022µf, 30%, 25V, Cer. Disc
C604	EP25X94	5600pf, 5%, 50V, Polyester
C605	EP31X162	100µf, 20%, 16V, Elect
C606	EP25X102	3300pf, 5%, 50V Polyester
C611	EP18X169	.01µf, 30%, 25V, Cer. Disc

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R601	EP14X431	1.3K ohm, 5%, l/4W. Carbon
R602	EP14X380	27K ohm, 5%, l/4W. Carbon
R603	EP14X409	10 ohm, 5%, l/4W. Carbon
R604	EP14X416	510 ohm, 5%, l/4W. Carbon
R605	EP14X380	27K ohm, 5%, l/4W. Carbon
R606	ES14X70	100 ohm, 5%, l/4W. Carbon
R607	EP14X217	620 ohm, 5%, l/4W. Carbon

(CONTINUED)

19" and 25" PM-C Parts List (Cont.)

REF. NO.	PART NO.	DESCRIPTION
R608	EP14X268	22 ohm, 5%, I/4W, Carbon
R609	ES14X59	560 ohm, 5%, I/4W, Carbon
R610	ES14X59	560 ohm, 5%, I/4W, Carbon
R611	EP14X220	180 ohm, 5%, I/4W, Carbon
R612	ES14X71	1K ohm, 5%, I/4W, Carbon
R613	EP14X409	10 ohm, 5%, I/4W, Carbon
R614	ES14X60	680 ohm, 5%, I/4W, Carbon
R615	ES14X70	100 ohm, 5%, I/4W, Carbon
R616	ES14X70	100 ohm, 5%, I/4W, Carbon
R618	EP14X400	2.7K ohm, 5%, I/4W, Carbon
R619	EP14X400	2.7K ohm, 5%, I/4W, Carbon
R620	EP14X409	10 ohm, 5%, I/4W, Carbon
R621	EP14X409	10 ohm, 5%, I/4W, Carbon
R622	ES14X60	680 ohm, 5%, I/4W, Carbon
R623	ES14X71	1K ohm, 5%, I/4W, Carbon
R624	EP14X427	200K ohm, 5%, I/4W, Carbon
R625	EP14X427	200K ohm, 5%, I/4W, Carbon
R626	EP14X409	10 ohm, 5%, I/4W, Carbon
R637	EP14X103	10K ohm, 5%, I/4W, Carbon
R643	EP14X103	10K ohm, 5%, I/4W, Carbon
R651	EP14X389	91 ohm, 5%, I/4W, Carbon
R653	EP14X389	91 ohm, 5%, I/4W, Carbon

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
R617	EP49X466	250 ohm, 20%

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q610	EP15X88	VIDEO BμfFER-NPN, Silicon
Q620	EP15X88	INVERSE VIDEO AMP.-NPN, Silicon
Q630	EP15X88	LUMA BμfFER-NPN, Silicon
Q640	EP15X88	CHROMA BμfFER-NPN, Silicon
Q650	EP15X88	SWITCH-NPN, Silicon
Q660	EP15X88	SWITCH-NPN, Silicon
Q670	EP15X88	BμfFER-NPN, Silicon
Q680	EP15X88	DELAY-NPN, Silicon
Q690	EP15X88	PULSE GEN.-NPN, Silicon

DIODE

REF. NO.	PART NO.	DESCRIPTION
Y601	ES16X27	Silicon

COILS

REF. NO.	PART NO.	DESCRIPTION
L605	EP36X136	CHOKE-15μh, 10%
L610	EP36X457	COIL-Delay Line
L620	EP36X473	COIL-Chroma, 5.3μh

PM-C/D

STEREO AMPLIFIER CIRCUIT BOARD

EP93X512

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
AC201	EP31X173	2.2μf, 20%, 50V, Elect.
AC202	EP31X163	47μf, 20%, 25V, Elect.
AC203	EP31X149	10μf, 20%, 35V, Elect.
AC204	EP25X77	.1μf, 20%, 50V, Polyester
AC205	EP25X95	.22μf, 10%, 50V, Polyester
AC206	EP31X111	2200μf, 20%, 35V, Elect.
AR211	EP31X173	2.2μf, 20%, 50V, Elect.
AR212	EP31X163	47μf, 20%, 25V, Elect.
AR213	EP31X149	10μf, 20%, 35V, Elect.
AC215	EP25X95	.22μf, 10%, 50V, Polyester
AC216	EP31X111	2200μf, 20%, 35V, Elect.
AC217	EP31X182	1000μf, 20%, 50V, Elect.
AC218	EP31X182	1000μf, 20%, 50V, Elect.
AC219	EP31X182	1000μf, 20%, 50V, Elect.
AC221	EP31X166	1μf, 20%, 50V, Elect.
AC222	EP31X166	1μf, 20%, 50V, Elect.
AC225	EP18X81	1000pf, 10%, 1KV, Cer. Disc
AC226	EP18X81	1000pf, 10%, 1KV, Cer. Disc
AC230	EP31X103	1000μf, 20%, 40V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
AR200	EP14X103	10K ohm, 5%, I/4W, Carbon
AR201	EP14X103	10K ohm, 5%, I/4W, Carbon
AR202	EP14X103	10K ohm, 5%, I/4W, Carbon
AR203	ES14X64	2K ohm, 5%, I/4W, Carbon (10 Watt Only)
AR204	EP14X104	22K ohm, 5%, I/4W, Carbon
AR205	ES14X79	1 ohm, 5%, 1/2W, Carbon
AR206	EP14X445	220 ohm, 5%, 1/2W, Carbon
AR208	ES14X60	680 ohm, 5%, I/4W, Carbon
AR210	EP14X103	10K ohm, 5%, I/4W, Carbon
AR211	EP14X103	10K ohm, 5%, I/4W, Carbon
AR212	EP14X103	10K ohm, 5%, I/4W, Carbon
AR213	ES14X64	2K ohm, 5%, I/4W, Carbon (10 Watt Only)
AR214	EP14X104	22K ohm, 5%, I/4W, Carbon
AR215	ES14X79	1 ohm, 5%, 1/2W, Carbon
AR216	EP14X445	220 ohm, 5%, 1/2W, Carbon
AR217	EP14X475	1 ohm, 5%, 2W, Metal Oxide
AR218	ES14X60	680 ohm, 5%, I/4W, Carbon
AR230	EP14X369	12 ohm, 5%, 1/4W, Carbon

INTEGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
AIC200	EP84X109	AUDIO POWER AMP
AIC201	EP84X109	AUDIO POWER AMP

DIODES

REF. NO.	PART NO.	DESCRIPTION
AY200	EP16X58	Zener
AY201	EP16X148	Zener, 36V
AY210	EP16X58	Zener
AY211	EP16X148	Zener, 36V
AY212	EP57X4	Rectifier
AY213	EP57X4	Rectifier

(CONTINUED)

19" and 25" PM-C Parts List (Cont.)

19" PM-C

HORIZ HEAT SINK CIRCUIT BOARD

EP93X523

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
★C1901	ES18X13	330pf, 20%, 2KV, Cer. Disc
★C1903	EP25X145	.011μf, 5%, 1.5KV, Polyproplyene
★C1904	EP25X152	.1μf, 10%, 200V Polyproplyene
C1905	EP25X106	.39μf, 10%, 400V, Polyester
C1907	EP18X217	330pf, 20%, 500V, Cer. Disc
C1909	EP25X151	2700pf, 10%, 100V, Mylar
C1915	EP25X151	2700pf, 10%, 200V, Mylar

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R1901	EP14X297	170 ohm, 10%, 7W, Wirewound
R1907	EP14X187	100 ohm, 5%, 1/2W, Carbon
R1911	EP14X128	330 ohm, 5%, 1/2W, Carbon

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
R1903	EP49X160	HORIZ CENTERING-500 ohm, 10%

TRANSISTOR

REF. NO.	PART NO.	DESCRIPTION
Q1901	EP15X218	HORIZ OUTPUT-NPN, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y1903	EP57X5	Rectifier, 400V
Y1905	EP57X5	Rectifier, 400V
Y1907	EP57X5	Rectifier, 400V

COILS & TRANSFORMER

REF. NO.	PART NO.	DESCRIPTION
★L1901	EP36X487	COIL-Width
L1903	EP36X450	CHOKE-2.5μh, 10%
★L1905	EP36X453	COIL-Linearity

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
	EU3X532	CLIP-Ground
RL10	EP8X90	CONNECTOR-3 Pos.
RL12	EP8X30	CONNECTOR-1 Pin
RL20	EP8X92	CONNECTOR-10 Pos.
FB1901	EP12X2	BEAD-Shield
FB1903	EP12X2	BEAD-Shield
	EP3X52	SPACER-Q1901

25" & 26" PM-A/B/C/D

HORIZ HEAT SINK CIRCUIT BOARD

EP93X426

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
★C1901	ES18X13	330pf, 20%, 2KV, Cer. Disc
★C1903	EP25X177	.015μf, 5%, 1.5KV, Polyproplyene
★C1904	EP25X159	.15μf, 10%, 200V Polyproplyene
C1905	EP25X91	.47μf, 10%, 400V, Polyester
C1907	EP18X217	330pf, 20%, 500V, Cer. Disc
C1909	EP25X151	2700pf, 10%, 100V, Mylar
C1915	EP25X151	2700pf, 10%, 200V, Mylar

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R1901	EP14X297	170 ohm, 10%, 7W, Wirewound
R1907	EP14X187	100 ohm, 5%, 1/2W, Carbon
R1911	EP14X128	330 ohm, 5%, 1/2W, Carbon

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
R1903	EP49X160	HORIZ CENTERING-500 ohm, 10%

TRANSISTOR

REF. NO.	PART NO.	DESCRIPTION
Q1901	EP15X218	HORIZ OUTPUT-NPN, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y1903	EP57X5	Rectifier, 400V
Y1905	EP57X5	Rectifier, 400V
Y1907	EP57X5	Rectifier, 400V

COILS & TRANSFORMER

REF. NO.	PART NO.	DESCRIPTION
★L1901	EP36X470	COIL-Width
L1903	EP36X450	CHOKE-2.5μh, 10%
★L1905	EP36X472	COIL-Linearity
★T1901	EP36X448	COIL-Pincushion Asm.

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
RL10	EP8X90	CONNECTOR-3 Pos.
RL12	EP8X30	CONNECTOR-1 Pin
RL20	EP8X92	CONNECTOR-10 Pos.
FB1901	EP12X2	BEAD-Shield
FB1903	EP12X2	BEAD-Shield
	EP3X52	SPACER-Q1901

(CONTINUED)

19" and 25" PM-C Parts List (Cont.)

19" & 25" PM-C

2 WATT POWER SUPPLY CIRCUIT BOARD

EP93X514

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
★C901	EP25X147	.1uf, 10%, 125V, Polyester
C903	EP18X81	1000pf, 10%, 1KV, Cer. Disc
C904	EP18X81	1000pf, 10%, 1KV, Cer. Disc
C905	EP18X81	1000pf, 10%, 1KV, Cer. Disc
C906	EP18X81	1000pf, 10%, 1KV, Cer. Disc
C907	EP31X181	330uf, 20%, 200V, Elect.
C908	EP18X283	220pf, 10%, 500V, SHiK, Cer. Disc
C909	EP18X282	51pf, 5%, 500V, Cer. Disc
C910	EP31X162	100uf, 20%, 25V, Elect.
C911	EP31X162	100uf, 20%, 16V, Elect.
C912	EP31X162	100uf, 20%, 16V, Elect.
C913	EP18X284	1500pf, 20%, 500V, SHiK, Cer. Disc
C914	EP25X77	.01uf, 10%, 50V, Polyester
C915	EP31X166	1uf, 20%, 50V, Elect.
C916	EP18X278	330pf, 20%, 1KV, Cer. Disc
C916B	EP18X278	330pf, 20%, 1KV, Cer. Disc
C917	EP25X174	8200pf, 10%, 50V, Polyester
C918	EP25X175	.015uf, 5%, 1KV, Polypropylene
C919	EP25X173	.001uf, 10%, 50V, Polyester
C920	EP18X118	.1uf, +30-80%, 25V, Cer. Disc
C922	EP18X202	220pf, 10%, 50V, SHiK, Cer. Disc
C963	EP31X45	47uf, 20%, 35V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
★R901	EP14X357	1 ohm, 10%, 5W, Wirewound
★R902	EP14X357	1 ohm, 10%, 5W, Wirewound
R903	EP14X105	100K ohm, 5%, 1/2W, Carbon
★R904	EP14X330	THERMISTOR
R905	EP14X268	22 ohm, 5%, 1/2W, Carbon
★R906	EP14X323	6.8K ohm, 5%, 3W, Flame Proof
R907	EP14X354	.39 ohm, 5%, 2W, Metal Oxide
R908	EP14X105	100K ohm, 5%, l/4W, Carbon
★R909	EP14X355	200 ohm, 1%, l/4W, Metal Film
★R910	EP14X408	1.1K ohm, 1%, l/4W, Metal Film
★R911	EP14X405	17.4K ohm, 5%, l/4W, Metal Film
★R913	EP14X406	390K ohm, 5%, l/4W, Carbon
R914	EP14X103	10K ohm, 5%, l/4W, Carbon
R916	EP14X390	110K ohm, 5%, 1/2W, Carbon
★R917	EP14X358	7.5 ohm, 5%, 5W, Wirewound
R918	EP14X356	100 ohm, 5%, 2W, Metal Oxide
R919	EP14X354	.39 ohm, 5%, 2W, Metal Oxide
R920	ES14X71	1K ohm, 5%, l/4W, Carbon

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
R912	EP49X466	REG ADJUST-B+ 128V, 250K ohm, 20%

INTEGRATED CIRCUIT

REF. NO.	PART NO.	DESCRIPTION
★IC901	EP84X233	SWITCHING POWER SUPPLY REGULATOR

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q901	EP15X223	SWITCHING-NPN, Silicon
Q902	EP15X224	TRIAC BI DIRECTIONAL TRIODE THYRISTOR

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y901	EP57X4	Rectifier
Y902	EP57X4	Rectifier
Y903	EP57X4	Rectifier
Y904	EP57X4	Rectifier
Y905	EP57X4	Rectifier
Y907	EP57X5	Rectifier
Y908	EU16X11	Silicon
Y909	EU16X11	Silicon
Y910	EP57X5	Rectifier
Y912	EP57X5	Rectifier
Y913	EP57X10	Rectifier
Y914	EP16X74	Zener, 1W
Y915	EP16X24	Silicon
Y937	EP57X5	Rectifier

COILS

REF. NO.	PART NO.	DESCRIPTION
★L901	EP36X464	CHOKE-Line Filter
★L902	EP36X465	CHOKE-Filament, 2.2uh

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
FB901	EP12X6	BEAD-Shield
FB903	EP12X2	BEAD-Shield
FB907	EP12X6	BEAD-Shield
	EP3X7	CLIP-Fuse (4 Used)
	★EP66X19	CORD-AC Power, Polarized
★F901	EP10X19	FUSE-4amp, 250V, Fast Acting, Snap-In
★F902	EP10X21	FUSE-2.5amp, 250V, Fast Acting, Snap-In

(CONTINUED)

19" and 25" PM-C Parts List (Cont.)

19" & 25" PM-C

10 WATT POWER SUPPLY CIRCUIT BOARD

EP93X515

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
★C901	EP25X147	.1µf, 10%, 125V, Polyester
C903	EP18X81	1000pf, 10%, 1KV, Cer. Disc
C904	EP18X81	1000pf, 10%, 1KV, Cer. Disc
C905	EP18X81	1000pf, 10%, 1KV, Cer. Disc
C906	EP18X81	1000pf, 10%, 1KV, Cer. Disc
C907	EP31X181	330µf, 20%, 200V, Elect.
C908	EP18X283	220pf, 10%, 500V, SHiK, Cer. Disc
C909	EP18X282	51pf, 5%, 500V, Cer. Disc
C910	EP31X162	100µf, 20%, 25V, Elect.
C911	EP31X162	100µf, 20%, 16V, Elect.
C912	EP31X162	100µf, 20%, 16V, Elect.
C913	EP18X284	1500pf, 20%, 500V, SHiK, Cer. Disc
C914	EP25X77	.01µf, 10%, 50V, Polyester
C915	EP31X166	1µf, 20%, 50V, Elect.
C916	EP18X278	330pf, 20%, 1KV, Cer. Disc
C916B	EP18X278	330pf, 20%, 1KV, Cer. Disc
C917	EP25X174	8200pf, 10%, 50V, Polyester
C918	EP25X175	.015µf, 5%, 1KV, Polypropylene
C919	EP25X173	.001µf, 10%, 50V, Polyester
C920	EP18X118	.1µf, +30-80%, 25V, Cer. Disc
C922	EP18X202	220pf, 10%, 50V, SHiK, Cer. Disc
C963	EP31X45	47µf, 20%, 35V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
★R901	EP14X357	1 ohm, 10%, 5W, Wirewound
★R902	EP14X357	1 ohm, 10%, 5W, Wirewound
R903	EP14X105	100K ohm, 5%, 1/2W, Carbon
★R904	EP14X330	THERMISTOR
R905	EP14X268	22 ohm, 5%, 1/2W, Carbon
★R906	EP14X323	6.8K ohm, 5%, 3W, Flame Proof
R907	EP14X354	.39 ohm, 5%, 2W, Metal Oxide
R908	EP14X105	100K ohm, 5%, l/4W, Carbon
★R909	EP14X355	200 ohm, 1%, l/4W, Metal Film
★R911	EP14X405	17.4K ohm, 1%, l/4W, Metal Oxide
★R913	EP14X406	390K ohm, 5%, l/4W, Carbon
R914	EP14X103	10K ohm, 5%, l/4W, Carbon
R916	EP14X390	110K ohm, 5%, 1/2W, Carbon
★R917	EP14X358	7.5 ohm, 5%, 5W, Wirewound
R918	EP14X356	100 ohm, 5%, 2W, Metal Oxide
R919	EP14X354	.39 ohm, 5%, 2W, Metal Oxide
R920	ES14X71	1K ohm, 5%, l/4W, Carbon

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
R912	EP49X466	REG ADJUST-B+ 128V, 250K ohm, 20%

INTEGRATED CIRCUIT

REF. NO.	PART NO.	DESCRIPTION
★IC901	EP84X233	SWITCHING POWER SUPPLY REGULATOR

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q901	EP15X223	SWITCHING-NPN, Silicon
Q902	EP15X224	TRIAC BI DIRECTIONAL TRIODE THYRISTOR

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y901	EP57X4	Rectifier
Y902	EP57X4	Rectifier
Y903	EP57X4	Rectifier
Y904	EP57X4	Rectifier
Y905	EP57X4	Rectifier
Y907	EP57X5	Rectifier
Y908	EU16X11	Silicon
Y909	EU16X11	Silicon
Y910	EP57X5	Rectifier
Y912	EP57X5	Rectifier
Y914	EP16X74	Zener, 1W
Y915	EP16X24	Silicon
Y937	EP57X5	Rectifier

COILS

REF. NO.	PART NO.	DESCRIPTION
★L901	EP36X464	CHOKE-Line Filter
★L902	EP36X465	CHOKE-Filament, 2.2µh

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
FB901	EP12X6	BEAD-Shield
FB903	EP12X2	BEAD-Shield
FB907	EP12X6	BEAD-Shield
	EP3X7	CLIP-Fuse (4 Used)
★EP66X19		CORD-AC Power, Polarized
★F901	EP10X19	FUSE-4amp, 250V, Fast Acting, Snap-In
★F902	EP10X4	FUSE-3amp, 250V, Fast Acting, Snap-In

(CONTINUED)

19" and 25" PM-C Parts List (Cont.)

19" PM-C

RGB CIRCUIT BOARD

EP93X526

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C402	EP18X196	330pf, 10%, 50V, HiK, Cer.Disc
C403	EP18X26	.01μf, +80-20%, 500V, HiK, Cer. Disc
C404	EP18X180	820pf, 20%, 50V, Hik, Cer. Disc
C405	EP18X196	330pf, 10%, 50V, HiK, Cer. Disc
C406	EP18X270	1000pf, 20%, 50V, HiK, Cer. Disc
C407	EP18X196	330pf, 10%, 50V, HiK, Cer. Disc
C408	EP18X291	560pf, 20%, 50V, HiK, Cer. Disc
C409	EP18X217	330pf, 20%, 500V, SHiK, Cer. Disc
C490	EP18X267	4700pf, +80-20%, 2KV, SHiK, Cer. Disc
C499	ES18X43	.01μf, 20%, 50V, HiK, Cer. Disc

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R403	EP14X103	10K ohm, 5%, l/4W, Carbon
R404	EP14X289	430 ohm, 5%, l/4W, Carbon
R405	ES14X59	560 ohm, 5%, l/4W, Carbon
★R411	EP14X183	3.3K ohm, 5%, 1/2W, Carbon
★R413	EP14X183	3.3K ohm, 5%, 1/2W, Carbon
R414	ES14X56	33 ohm, 5%, l/4W, Carbon
★R415	EP14X183	3.3K ohm, 5%, 1/2W, Carbon
R416	ES14X56	33 ohm, 5%, l/4W, Carbon
R418	ES14X56	33 ohm, 5%, l/4W, Carbon
★R419	EP14X183	3.3K ohm, 5%, l/4W, Carbon
★R424	ES14X70	100 ohm, 5%, l/4W, Carbon
★R426	ES14X70	100 ohm, 5%, l/4W, Carbon
★R428	ES14X70	100 ohm, 5%, l/8W, Carbon
R430	EP14X131	1meg ohm, 10%, 1/4W, Carbon
★R434	EP14X329	200 ohm, 5%, l/4W, Carbon
★R436	EP14X329	200 ohm, 5%, l/4W, Carbon
★R438	EP14X129	220 ohm, 5%, l/8W, Carbon
R454	ES14X65	4.7K ohm, 5%, l/4W, Carbon
R456	ES14X65	4.7K ohm, 5%, l/4W, Carbon
R458	ES14X65	4.7K ohm, 5%, l/8W, Carbon
★R464	EP14X381	3K ohm, 5%, l/4W, Carbon
★R466	EP14X381	3K ohm, 5%, l/8W, Carbon
★R468	EP14X381	3K ohm, 5%, l/4W, Carbon
484	EP14X231	12K ohm, 5%, 2W, Metal Oxide
★R486	EP14X231	12K ohm, 5%, 2W, Metal Oxide
★R488	EP14X231	12K ohm, 5%, 2W, Metal Oxide

POTENTIOMETERS

REF. NO.	PART NO.	DESCRIPTION
R444	EP49X469	Red Drive, 150 ohm, 20%
R446	EP49X469	Green Drive, 150 ohm, 20%
R448	EP49X469	Blue Drive, 150 ohm, 20%
R474	EP49X470	Red Cut Off, 5K ohm, 20%
R476	EP49X470	Green Cut Off, 5K ohm, 20%
R478	EP49X470	Blue Cut Off, 5K ohm, 20%

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q404	EP15X61	RED DRIVE-NPN, Silicon
Q406	EP15X61	GREEN DRIVE-NPN, Silicon
Q408	EP15X61	BLUE DRIVE-NPN, Silicon

DIODE

REF. NO.	PART NO.	DESCRIPTION
Y499	EP16X52	Zener, 15V

COIL

REF. NO.	PART NO.	DESCRIPTION
L403	ES36X82	CHOKE-220μh, 10%

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
RL4	EP8X92	CONNECTOR-8 Pos.
★EP34X69		SOCKET-CRT

25 PM-C

RGB CIRCUIT BOARD

EP93X527

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C402	EP18X196	330pf, 20%, 50V, HiK, Cer. Disc
C403	EP18X26	.01μf, +80-20%, 500V, HiK, Cer. Disc
C404	EP18X180	820pf, 20%, 50V, Hik, Cer. Disc
C405	EP18X196	330pf, 20%, 50V, HiK, Cer. Disc
C406	EP18X270	1000pf, 20%, 50V, HiK, Cer. Disc
C407	EP18X196	330pf, 20%, 50V, HiK, Cer. Disc
C408	EP18X291	560pf, 20%, 50V, HiK, Cer. Disc
C409	EP18X217	330pf, 20%, 500V, SHiK, Cer. Disc
C490	EP18X267	4700pf, +80-20%, 2KV, SHiK, Cer Disc
C499	ES18X43	.01μf, 20%, 50V, HiK, Cer. Disc

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R403	EP14X103	10K ohm, 5%, l/4W, Carbon
R404	EP14X289	430 ohm, 5%, l/4W, Carbon
R405	ES14X59	560 ohm, 5%, 1/4W, Carbon
★R411	EP14X183	3.3K ohm, 5%, 1/2W, Carbon
★R413	EP14X183	3.3K ohm, 5%, 1/2W, Carbon
R414	ES14X56	33 ohm, 5%, l/4W, Carbon
★R415	EP14X183	3.3K ohm, 5%, 1/2W, Carbon
R416	ES14X56	33 ohm, 5%, l/4W, Carbon
R418	ES14X56	33 ohm, 5%, l/4W, Carbon

(CONTINUED)

19" and 25" PM-C Parts List (Cont.)

★R419	EP14X183	3.3K ohm, 5%, I/4W, Carbon
★R424	ES14X70	100 ohm, 5%, I/4W, Carbon
★R426	ES14X70	100 ohm, 5%, I/4W, Carbon
★R428	ES14X70	100 ohm, 5%, I/8W, Carbon
R430	EP14X131	1meg ohm, 10%, 1/4W, Carbon
★R434	EP14X329	200 ohm, 5%, I/4W, Carbon
★R436	EP14X329	200 ohm, 5%, I/4W, Carbon
★R438	EP14X129	220 ohm, 5%, I/8W, Carbon
R454	ES14X65	4.7K ohm, 5%, I/4W, Carbon
R456	ES14X65	4.7K ohm, 5%, I/4W, Carbon
R458	ES14X65	4.7K ohm, 5%, I/4W, Carbon
★R464	EP14X412	3K ohm, 5%, I/4W, Carbon
★R466	EP14X412	3K ohm, 5%, I/8W, Carbon
★R468	EP14X412	3K ohm, 5%, I/4W, Carbon
★R484	EP14X231	12K ohm, 5%, 2W, Metal Oxide
★R486	EP14X231	12K ohm, 5%, 2W, Metal Oxide
★R488	EP14X231	12K ohm, 5%, 2W, Metal Oxide

POTENTIOMETERS

REF. NO.	PART NO.	DESCRIPTION
R444	EP49X469	Red Drive, 150 ohm, 20%
R446	EP49X469	Green Drive, 150 ohm, 20%
R448	EP49X469	Blue Drive, 150 ohm, 20%
R474	EP49X470	Red Cut Off, 5K ohm, 20%
R476	EP49X470	Green Cut Off, 5K ohm, 20%
R478	EP49X470	Blue Cut Off, 5K ohm, 20%

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q404	EP15X61	RED DRIVE-NPN, Silicon
Q406	EP15X61	GREEN DRIVE-NPN, Silicon
Q408	EP15X61	BLUE DRIVE-NPN, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y499	EP16X52	Zener, 15V

COIL

REF. NO.	PART NO.	DESCRIPTION
L403	ES36X82	CHOKE-220μh, 10%

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
RL4	EP8X92	CONNECTOR-8 Pos.
	★EP34X69	SOCKET-CRT

PM-C

SIGNAL CIRCUIT BOARD

EP93X561

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C101	EP18X205	560pf, 10%, 50V, HiK, Cer. Disc
C102	EP18X205	560pf, 10%, 50V, HiK, Cer. Disc
C103	EU22X216	.01μf, +80-20%, 50V, HiK, Cer. Disc
C104	EP18X259	1000pf, 10%, 500V, SHiK, Cer. Disc
C105	ES25X21	.15μf, 20%, 50V, Polyester
C107	EP18X191	68pf, 5%, 50V, NPO, Cer. Disc
C108	EP18X194	100pf, 5%, 50V, N750, Cer. Disc
C111	EP18X111	68pf, 5%, 50V, NPO, Cer. Disc
C113	EU22X216	.01μf, +80-20%, 50V, HiK, Cer. Disc
C114	EP18X191	68pf, 5%, 50V, NPO, Cer. Disc
C115	EP18X101	13pf, 5%, 50V, NPO, Cer. Disc
C119	EP31X170	4.7μf, 20%, 35V, Elect.
C120	EP18X195	120pf, 5%, 50V, NPO, Cer. Disc
C121	EU22X216	.01μf, +80-20%, 50V, HiK, Cer. Disc
C124	EP18X366	22pf, 10%, 50V, NPO, Cer. Disc
C125	EP31X163	47μf, 20%, 25V, Elect.
C126	EU22X216	.01μf, +80-20%, 50V, HiK, Cer. Disc
C127	EU22X216	.01μf, +80-20%, 50V, HiK, Cer. Disc
C128	EU22X216	.01μf, +80-20%, 50V, HiK, Cer. Disc
C129	EU22X216	.01μf, +80-20%, 50V, HiK, Cer. Disc
C130	EP18X194	100pf, 5%, 50V, N750, Cer. Disc
C131	EU22X216	.01μf, +80-20%, 50V, HiK, Cer. Disc
C132	EU22X216	.01μf, +80-20%, 50V, HiK, Cer. Disc
C133	EU22X216	.01μf, +80-20%, 50V, HiK, Cer. Disc
C136	EP31X141	220μf, 20%, 16V, Elect.
C137	EP31X149	10μf, 20%, 35V, Elect.
C140	EP18X259	1000pf, 10%, 500V, SHiK, Cer. Disc
C141	EP18X259	1000pf, 10%, 500V, SHiK, Cer. Disc
C142	EP18X197	.01μf, 10%, 50V, SHiK, Cer. Disc
C144	EP31X49	1μf, 10%, 16V, Elect.
C169	EP31X168	220μf, 20%, 10V, Elect.
C181	EU22X216	.01μf, 10%, 50V, HiK, Cer. Disc
C182	EP25X130	.022μf, 10%, 50V, Polyester
C183	EP31X166	1μf, 20%, 50V, Elect.
C185	EP31X149	10μf, 20%, 35V, Elect.
C186	EP31X149	10μf, 20%, 35V, Elect.
C187	EP31X149	10μf, 20%, 35V, Elect.
C189	EP31X149	10μf, 20%, 35V, Elect.
C193	EP18X113	150pf, 5%, 50V, NPO, Cer. Disc
C195	EP18X182	5.6pf, 10%, 50V, NPO, Cer. Disc
C196	EP25X166	.039μf, 10%, 50V, Polyester
C197	EP31X170	4.7μf, 20%, 35V, Elect.
C198	EP31X149	10μf, 20%, 35V, Elect.
C199	EU22X216	.01μf, +80-20%, 50V, HiK, Cer. Disc
C200	EP18X274	1500pf, 10%, 50V, SHiK, Cer. Disc
C202	EP18X169	.01μf, 30%, 25V, HiK, Cer. Disc
C206	EP31X172	22μf, 20%, 25V, Elect.
C208	EP18X167	.047μf, 10%, 50V, HiK, Cer. Disc
C216	EP31X149	10μf, 20%, 35V, Elect.
C218	EP31X149	10μf, 20%, 35V, Elect.
C222	EU22X216	.01μf, +80-20%, 50V, HiK, Cer. Disc
C231	EP18X180	820pf, 10%, 50V, Cer. Disc
C234	EP31X149	10μf, 20%, 35V, Elect.

(CONTINUED)

19" and 25" PM-C Parts List (Cont.)

C236	EP18X169	.01μf, 30%, 25V, HiK, Cer. Disc
C242	EP22X5	680pf, 10%, 500V, Cer. Disc
C250	EP25X77	.1μf, 20%, 50V, Polyester
C256	EP31X172	22μf, 20%, 25V, Elect.
C299	EP31X168	220μf, 20%, 16V, Elect.
C300	EP31X175	33μf, +50-20%, 10V, Elect.
C302	EP31X49	1μf, 10%, 16V, Elect.
C306	EP18X122	82pf, 5%, 50V, N220, Cer. Disc
C308	EU22X216	.01μf, 10%, 50V, HiK, Cer. Disc
C310	EP25X87	.047μf, 20%, 50V, Polyester
C314	EP18X277	220pf, 20%, 1KV, HiK, Cer. Disc
C316	EU18X9	39pf, 5%, 50V, NPO, Cer. Disc
C320	ES18X81	30pf, 5%, 500V, NPO, Cer. Disc
C322	EP18X32	36pf, 5%, 500V, NPO, Cer. Disc
C326	EP25X124	.033μf, 20%, 50V, Polyester
C328	EP31X149	10μf, 20%, 35V, Elect.
C330	EP18X32	36pf, 5%, 50V, NPO, Cer. Disc
C334	EP18X194	100pf, 5%, 50V, N750, Cer, Disc
C336	EP31X166	1μf, 20%, 50V, Elect.
C350	EP18X203	270pf, 10%, 50V, HiK, Cer. Disc
C352	EP18X203	270pf, 10%, 50V, HiK, Cer. Disc
C354	EP18X203	270pf, 10%, 50V, HiK, Cer. Disc
C371	EP18X197	1000pf, 10%, 50V, HiK, Cer. Disc
C372	EP18X154	200pf, 10%, 50V, HiK, Cer. Disc
C373	EP18X220	.01μf, 20%, 50V, HiK, Cer. Disc
C374	EP31X149	10μf, 20%, 35V, Elect.
C375	EP18X197	1000pf, 10%, 50V, HiK, Cer. Disc
C377	EP31X166	1μf, 20%, 50V, Elect.
C501	EP31X45	47μf, 20%, 25V, Elect.
C503	EP25X149	5600pf, 5%, 100V, Polyropylene
C505	EP31X49	1μf, 10%, 16V, Elect.
C506	EP25X150	6800pf, 10%, 50V, Polyester
C507	EP25X87	.047μf, 10%, 50V, Polyester
C509	EP25X104	.015μf, 10%, 50V, Polyester
C513	EP31X149	10μf, 20%, 35V, Elect.
C515	EP31X49	1μf, 10%, 16V, Elect.
C521	EP25X87	.047μf, 10%, 50V, Polyester
C523	EP25X77	.1μf, 20%, 50V, Polyester
C525	EP18X197	1000pf, 10%, 50V, SHiK, Cer. Disc
C581	EP18X278	330pf, 20%, 1KV, HiK, Cer. Disc
C601	EP25X171	.033μf, 10%, 50V, Polyester
C603	EP31X149	10μf, 20%, 35V, Elect.
C605	EP18X229	6800pf, 10%, 50V, SHiK, Cer. Disc
C607	EP31X141	220μf, 20%, 25V, Elect.
C609	EP31X166	1μf, 20%, 50V, Elect.
C612	EP25X183	.022μf, 10%, 50V, Polyester
C613	EP18X286	180pf, 5%, 500V, NPO, Cer. Disc
C614	EP31X44	22μf, 20%, 35V, Elect.
C615	EP31X151	2.7μf, 20%, 160V, Elect.
C617	EP18X264	4700pf, 20%, 500V, HiK, Cer. Disc
C619	EP31X154	470μf, 20%, 10V, Elect.
C621	EP31X140	100μf, 20%, 50V, Elect.
C623	EP31X178	1μf, 10%, 35V, Tantalum
C970	EP31X149	10μf, 20%, 35V, Elect.
C971	EP31X159	470μf, 20%, 16V, Elect.
C990	EP18X279	470pf, 20%, 1KV, HiK, Cer. Disc
C991	EP31X156	10μf, +50-20%, 180V, Elect.
C993	EP31X170	4.7μf, 20%, 35V, Elect.
C994	EP25X11	8200pf, 10%, 100V, Polyester

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R101	ES14X70	100 ohm, 5%, 1/4W, Carbon
R102	EP14X379	5.6K ohm, 5%, 1/4W, Carbon
R103	ES14X62	1.5K ohm, 5%, 1/4W, Carbon
R104	ES14X57	390 ohm, 5%, 1/4W, Carbon
R105	EP14X268	22 ohm, 5%, 1/4W, Carbon
R108	EP14X97	270K ohm, 5%, 1/8W, Carbon
R109	EP14X445	220 ohm, 5%, 1/4W, Carbon
R112	ES14X58	470 ohm, 5%, 1/4W, Carbon
R113	ES14X57	390 ohm, 5%, 1/4W, Carbon
R114	ES14X58	470 ohm, 5%, 1/4W, Carbon
R115	EP14X103	10K ohm, 5%, 1/8W, Carbon
R117	EP14X445	220 ohm, 5%, 1/4W, Carbon
R118	EP14X370	9.1K ohm, 5%, 1/8W, Carbon
R119	EP14X119	68K ohm, 5%, 1/8W, Carbon
R121	EP14X131	47K ohm, 5%, 1/4W, Carbon
R122	ES14X51	47 ohm, 5%, 1/4W, Carbon
R123	EP14X304	2.7K ohm, 5%, 1/8W, Carbon
R125	EP14X243	2.2K ohm, 5%, 1/4W, Carbon
R126	EP14X411	2.4K ohm, 5%, 1/4W, Carbon
R128	EP14X185	120K ohm, 5%, 1/4W, Carbon
R129	EP14X239	750 ohm, 5%, 1/8W, Carbon
R130	ES14X62	1.5K ohm, 5%, 1/4W, Carbon
R131	EP14X414	18K ohm, 5%, 1/4W, Carbon
R133	ES14X71	1K ohm, 5%, 1/4W, Carbon
R134	EP14X378	120 ohm, 5%, 1/4W, Carbon
R135	EP14X445	220 ohm, 5%, 1/4W, Carbon
R139	EP14X103	10K ohm, 5%, 1/4W, Carbon
R141	EP14X379	5.6K ohm, 5%, 1/4W, Carbon
R142	EP14X103	10K ohm, 5%, 1/4W, Carbon
R144	EP14X372	24K ohm, 5%, 1/4W, Carbon
R146	EP14X295	910 ohm, 5%, 1/4W, Carbon
R150	ES14X59	560 ohm, 5%, 1/4W, Carbon
R152	EP14X103	10K ohm, 5%, 1/4W, Carbon
R154	EP14X136	33K ohm, 5%, 1/4W, Carbon
R156	ES14X59	560 ohm, 5%, 1/4W, Carbon
R160	EP14X369	12 ohm, 5%, 1/4W, Carbon
R161	EP14X369	12 ohm, 5%, 1/4W, Carbon
R162	ES14X69	56 ohm, 5%, 1/4W, Carbon
R164	EP14X120	150 ohm, 5%, 1/8W, Carbon
R174	ES14X71	1K ohm, 5%, 1/4W, Carbon
R180	EP14X431	1.3K ohm, 5%, 1/4W, Carbon
R181	EP14X456	6.8K ohm, 5%, 1/4W, Carbon
R182	ES14X71	1K ohm, 5%, 1/4W, Carbon
R183	ES14X71	1K ohm, 5%, 1/4W, Carbon
R186	ES14X61	820 ohm, 5%, 1/4W, Carbon
R188	EP14X133	470K ohm, 5%, 1/4W, Carbon
R195	EP14X379	5.6K ohm, 5%, 1/4W, Carbon
R196	EP14X409	10 ohm, 5%, 1/4W, Carbon
R197	EP14X424	8.2K ohm, 5%, 1/4W, Carbon
R200	EP14X378	120 ohm, 5%, 1/4W, Carbon
R202	EP14X295	910 ohm, 5%, 1/4W, Carbon
R203	EP14X411	2.4K ohm, 5%, 1/4W, Carbon
R208	EP14X416	510 ohm, 5%, 1/4W, Carbon
R209	EP14X409	10 ohm, 5%, 1/4W, Carbon
R210	ES14X59	560 ohm, 5%, 1/4W, Carbon
R211	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
R212	EP14X413	12K ohm, 5%, 1/4W, Carbon
R213	EP14X415	82K ohm, 5%, 1/4W, Carbon
R215	ES14X64	2K ohm, 5%, 1/4W, Carbon
R218	ES14X60	680 ohm, 5%, 1/4W, Carbon
R221	EP14X293	680K ohm, 5%, 1/4W, Carbon
R222	EP14X415	82K ohm, 5%, 1/4W, Carbon
R224	EP14X456	6.8K ohm, 5%, 1/4W, Carbon
R226	EP14X103	10K ohm, 5%, 1/4W, Carbon
R227	EP14X399	270 ohm, 5%, 1/8W, Carbon
R229	EP14X289	430 ohm, 5%, 1/4W, Carbon
R230	ES14X70	100 ohm, 5%, 1/4W, Carbon
R231	ES14X70	100 ohm, 5%, 1/4W, Carbon
R232	EP14X412	3K ohm, 5%, 1/4W, Carbon
R233	EP14X412	3K ohm, 5%, 1/4W, Carbon
R234	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
R237	EP14X399	270 ohm, 5%, 1/8W, Carbon
R238	EP14X238	620 ohm, 5%, 1/8W, Carbon
R239	EP14X410	240 ohm, 5%, 1/4W, Carbon

(CONTINUED)

19" and 25" PM-C Parts List (Cont.)

REF. NO.	PART NO.	DESCRIPTION
R240	EP14X408	1.1K ohm, 5%, 1/4W, Carbon
R242	EP14X444	1.2K ohm, 5%, 1/8W, Carbon
R250	ES14X62	1.5K ohm, 5%, 1/4W, Carbon
R252	EP14X414	18K ohm, 5%, 1/4W, Carbon
R254	EP14X105	100K ohm, 5%, 1/4W, Carbon
R256	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
R258	EP14X398	15K ohm, 5%, 1/4W, Carbon
R300	EP14X374	36K ohm, 5%, 1/8W, Carbon
R302	EP14X398	15K ohm, 5%, 1/4W, Carbon
R312	EP14X304	2.7K ohm, 5%, 1/4W, Carbon
R313	EP14X419	30K ohm, 5%, 1/4W, Carbon
R316	EP14X128	330 ohm, 5%, 1/8W, Carbon
R317	EP14X416	510 ohm, 5%, 1/4W, Carbon
R318	EP14X416	510 ohm, 5%, 1/4W, Carbon
R319	EP14X416	510 ohm, 5%, 1/4W, Carbon
R320	EP14X444	1.2K ohm, 5%, 1/8W, Carbon
R322	ES14X58	470 ohm, 5%, 1/4W, Carbon
R326	EP14X284	1K ohm, 5%, 1/8W, Carbon
R328	EP14X284	1K ohm, 5%, 1/8W, Carbon
R336	EP14X418	5.1K ohm, 5%, 1/8W, Carbon
R338	EP14X105	100K ohm, 5%, 1/4W, Carbon
R350	EP14X417	3.6K ohm, 5%, 1/8W, Carbon
R352	EP14X417	3.6K ohm, 5%, 1/8W, Carbon
R356	EP14X417	3.6K ohm, 5%, 1/8W, Carbon
R372	ES14X70	100 ohm, 5%, 1/4W, Carbon
R377	EP14X304	2.7K ohm, 5%, 1/4W, Carbon
R378	EP14X355	200 ohm, 5%, 1/4W, Carbon
R379	ES14X61	820 ohm, 5%, 1/4W, Carbon
R380	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
R381	EP14X379	5.6K ohm, 5%, 1/4W, Carbon
R382	EP14X284	10 ohm, 5%, 1/8W, Carbon
R383	ES14X61	820 ohm, 5%, 1/4W, Carbon
R384	ES14X61	820 ohm, 5%, 1/4W, Carbon
R386	EP14X284	10 ohm, 5%, 1/8W, Carbon
R387	EP14X418	5.1K ohm, 5%, 1/4W, Carbon
R388	EP14X284	10 ohm, 5%, 1/8W, Carbon
R389	EP14X382	820K ohm, 5%, 1/8W, Carbon
★R503	EP14X351	1.5K ohm, 5%, 2W, Metal Oxide
R507	EP14X376	11K ohm, 5%, 1/4W, Carbon
R508	EP14X119	68K ohm, 5%, 1/8W, Carbon
R511	EP14X103	10K ohm, 5%, 1/4W, Carbon
R513	EP14X398	15K ohm, 5%, 1/4W, Carbon
R516	EP14X453	150K ohm, 5%, 1/4W, Carbon
R518	EP14X425	240K ohm, 5%, 1/4W, Carbon
R519	EP14X422	62K ohm, 5%, 1/4W, Carbon
R521	ES14X70	100 ohm, 5%, 1/4W, Carbon
R523	ES14X57	390 ohm, 5%, 1/4W, Carbon
R531	ES14X56	33 ohm, 5%, 1/4W, Carbon
R537	EP14X421	4.3K ohm, 5%, 1/4W, Carbon
R539	EP14X379	5.6K ohm, 5%, 1/4W, Carbon
R541	EP14X386	51K ohm, 5%, 1/4W, Carbon
R601	EP14X398	15K ohm, 5%, 1/4W, Carbon
R603	ES14X51	47 ohm, 5%, 1/4W, Carbon
R605	EP14X103	10K ohm, 5%, 1/4W, Carbon
R609	EP14X398	15K ohm, 5%, 1/4W, Carbon
R610	EP14X439	43K ohm, 5%, 1/4W, Carbon (25" Only)
R611	EP14X289	430 ohm, 5%, 1/4W, Carbon (25" Only)
R612	ES14X60	680 ohm, 5%, 1/4W, Carbon
R613	EP14X367	2K ohm, 5%, 1/4W, Carbon
R615	EP14X285	20K ohm, 5%, 1/8W, Carbon
R617	ES14X70	100 ohm, 5%, 1/4W, Carbon
R621	EP14X388	6.8 ohm, 5%, 1W, Metal Oxide
R623	EP14X370	9.1K ohm, 5%, 1/4W, Carbon
R625	EP14X445	220 ohm, 5%, 1/4W, Carbon
R627	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
R631	EP14X456	6.8K ohm, 5%, 1/4W, Carbon
R633	EP14X424	8.2K ohm, 5%, 1/4W, Carbon
R635	EP14X220	180 ohm, 5%, 1/4W, Carbon
R637	ES14X70	100 ohm, 5%, 1/4W, Carbon
R641	EP14X409	10 ohm, 5%, 1/2W, Carbon
R643	EP14X102	560 ohm, 5%, 1W, Metal Oxide
★R645	EP14X102	560 ohm, 5%, 1W, Metal Oxide
★R647	EP14X230	1.5K ohm 5%, 3W, Flame Proof
R649	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
R651	EP14X369	12 ohm, 5%, 1/2W, Carbon
R653	EP14X346	180 ohm, 5%, 2W, Metal Oxide
R655	ES14X62	1.5K ohm, 5%, 1W, Metal Oxide
R935	EP14X361	1.8K ohm, 5%, 1/4W, Carbon
R935A	EP14X398	15K ohm, 5%, 1/4W, Carbon
R936	ES14X71	1K ohm, 5%, 1/4W, Carbon
R950	EP14X280	15 ohm, 5%, 2W, Metal Oxide
★R990	EP14X220	180 ohm, 5%, 1/2W, Carbon
R990A	EP14X299	68 ohm, 5%, 1/2W, Carbon
R996	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
R998	EP14X380	27K ohm, 5%, 1/4W, Carbon

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
R116	EP49X463	RF/AGC-5K ohm, 20%
R124	EP49X463	IF/AGC-5K ohm, 20%
R262	EP49X463	BRIGHTNESS CENTER-5K ohm, 20%
R330	EP49X465	APC-50K ohm, 20%
R505	EP49X463	HORIZ HOLD-5K ohm, 20%
R619	EP49X466	250 ohm, 20%
R629	EP49X467	VERTICAL HOLD-10K ohm, 20%
R657	EP49X465	VERTICAL CENTERING-50K ohm, 20%

INTERGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
	★EP62X167	HVSD-Thick Film
IC101	EP84X213	IF/AGC/DET
IC190	EP84X216	AUDIO DET/AMP
IC300	EP84X221	CHROMA/VIDEO
IC501	EP84X215	SWEEP OSC.
IC902	EP84X217	3 TERMINAL VOL. REG.

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q105	EP15X104	PRE AMP-Hi Freq
Q107	EP15X87	VIDEO KILLER-NPN, Silicon
Q110	EP15X87	VIDEO BUFFER-NPN, Silicon
Q112	EP15X48	EXT. VIDEO AMP-PNP, Silicon
Q114	EP15X87	VIDEO BUFFER-NPN, Silicon
Q116	EP15X48	VIDEO ISO.-PNP, Silicon
Q118	EP15X87	VIDEO BUFFER-NPN, Silicon
Q200	EP15X88	BEAM LIMITER THRESHOLD-NPN, Silicon
Q202	EP15X48	BEAM LIMITER CONTROL-PNP Silicon
Q204	EP15X88	PEAK AMP-NPN, Silicon
Q208	EP15X88	VIDEO INV.-NPN, Silicon
Q210	EP15X48	VIDEO INV. AMP-PNP, Silicon
Q212	EP15X48	B-Y EMIT FOLLOWER-PNP, Silicon
Q214	EP15X48	R-Y EMIT FOLLOWER-PNP, Silicon
Q216	EP15X48	G-Y EMIT FOLLOWER-PNP, Silicon

(CONTINUED)

19" and 25" PM-C Parts List (Cont.)

Q218	EP15X48	VIDEO DRIVER-PNP, Silicon
Q300	EP15X226	NPN, Silicon
Q601	EP15X105	VERTICAL OUTPUT-NPN, Silicon
Q603	EP15X105	VERTICAL DRIVER-NPN, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y187	EP16X58	Zener
Y189	EP16X58	Zener
Y190	EP16X58	Zener
Y202	ES16X27	Silicon
Y204	ES16X27	Silicon
Y206	ES16X27	Silicon
Y208	EP16X58	Zener
Y214	ES16X27	Silicon
Y218	ES16X27	Silicon
Y299	EP16X58	Zener
Y300	EP16X147	Silicon
Y350	EP16X58	Zener
Y352	EP16X58	Zener
Y354	EP16X58	Zener
Y504	EP16X19	Zener, 5.6V
Y603	EP57X4	Rectifier
Y605	EP57X4	Rectifier
Y607	EP57X4	Rectifier
Y609	EP57X4	Rectifier
Y933	EP57X4	Rectifier
Y990	ES16X27	Silicon
Y991	EP57X5	Rectifier
Y992	EP57X5	Rectifier

COILS & TRANSFORMERS

REF. NO.	PART NO.	DESCRIPTION
CF100	EP41X126	COIL-Audio, Ceramic Filter, 4.5mhz
CF101	EP41X143	COIL-Ceramic Trap, 4.5mhz
L101	EP36X442	CHOKE-.82μh, 20%
L102	EP36X442	CHOKE-.82μh, 20%
L104	EP36X4	COIL-Choke
L105	EP36X136	CHOKE-15μh, 10%
L106	EP36X433	COIL-Molded
L107	EP36X433	COIL-Molded
L108	EP36X468	COIL-IF Trap
L112	EP36X142	CHOKE-10μh, 10%
L113	EP36X142	CHOKE-10μh, 10%
L180	EP36X142	CHOKE-10μh, 10%
L190	EP36X435	COIL-Quad.
L200	EP36X314	CHOKE-30μh, 10%
L204	EP36X33	CHOKE-56μh, 10%
L220	EP36X459	COIL-Delay Line
L236	EP36X136	CHOKE-15μh, 5%
L300	EP36X23	CHOKE-12μh, 5%
L320	EP36X33	CHOKE-56μh, 5%
L321	EP36X33	CHOKE-56μh, 5%
L322	EP36X33	CHOKE-56μh, 5%
SF101	EP41X123	SURFACE FILTER
X300	EP41X10	CRYSTAL-Quartz Filter

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
RL5	EP8X44	CONNECTOR-6 Pins
	EP3X38	WASHER-Q601, Q603

PM-A/B/C

SOUND PLUS CIRCUIT BOARD

EP93X438

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
AC300	ES18X43	.01μf, 20%, 50V, HiK, Cer. Disc
AC302	EP31X149	10μf, 20%, 35V, Elect.
AC303	EP25X77	.1μf, 10%, 50V, Polyester
AC305	EP31X163	47μf, 20%, 25V, Elect.
AC306	EP25X182	.47μf, 5%, 100V, Polypropylene
AC307	EP25X181	.22μf, 5%, 100V, Polypropylene
AC308	EP25X181	.22μf, 5%, 100V, Polypropylene
AC309	EP25X179	.001μf, 5%, 100V, Polypropylene
AC310	EP25X179	.001μf, 5%, 100V, Polypropylene
AC311	EP25X153	2200pf, 5%, 100V, Polypropylene
AC312	EP31X166	1μf, 20%, 50V, Elect.
AC313	EP18X169	.01μf, 30%, 25V, HiK, Cer. Disc
AC314	EP25X179	.001μf, 5%, 100V, Polypropylene
AC315	EP31X166	1μf, 20%, 50V, Elect.
AC316	EP31X149	10μf, 20%, 35V, Elect.
AC319	EP31X166	1μf, 20%, 50V, Elect.
AC320	EP31X166	1μf, 20%, 50V, Elect.
AC321	EP31X166	1μf, 20%, 50V, Elect.
AC322	EP31X166	1μf, 20%, 50V, Elect.
AC323	EP31X166	1μf, 20%, 50V, Elect.
AC324	EP31X166	1μf, 20%, 50V, Elect.
AC325	EP31X162	100μf, 20%, 25V, Elect.
AC326	EP25X95	.22μf, 10%, 50V, Polyester
AC327	EP31X170	4.7μf, 20%, 35V, Elect.
AC328	EP31X170	4.7μf, 20%, 35V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
AR300	EP14X427	200K ohm, 5%, l/4W, Carbon
AR301	EP14X386	51K ohm, 5%, l/4W, Carbon
AR302	EP14X413	12K ohm, 5%, l/4W, Carbon
AR303	EP14X103	10K ohm, 5%, l/4W, Carbon
AR304	EP14X103	10K ohm, 5%, l/4W, Carbon
AR305	EP14X106	1 meg ohm, 5%, l/4W, Carbon
AR306	EP14X105	100K ohm, 5%, l/4W, Carbon
AR307	EP14X439	43K ohm, 5%, l/4W, Carbon
AR308	EP14X395	430K ohm, 5%, l/4W, Carbon
AR309	EP14X105	100K ohm, 5%, l/4W, Carbon
AR312	ES14X58	470 ohm, 5%, l/4W, Carbon
AR310	ES14X183	3.3K ohm, 5%, l/4W, Carbon
AR311	ES14X65	4.7K ohm, 5%, l/4W, Carbon
AR312	ES14X58	470 ohm, 5%, 1/4W, Carbon
AR313	ES14X61	820 ohm, 5%, l/4W, Carbon
AR314	ES14X65	4.7K ohm, 5%, l/4W, Carbon
AR315	ES14X65	4.7K ohm, 5%, l/4W, Carbon
AR316	EP14X411	2.4K ohm, 5%, l/4W, Carbon
AR317	EP14X136	33K ohm, 5%, l/4W, Carbon
AR318	EP14X136	33K ohm, 5%, l/4W, Carbon
AR319	EP14X414	18K ohm, 5%, l/4W, Carbon
AR320	EP14X120	150 ohm, 5%, 1/4W, Carbon
AR322	EP14X122	7.5K ohm, 5%, l/4W, Carbon
AR323	EP14X424	8.2K ohm, 5%, 1/4W, Carbon
AR324	EP14X140	330K ohm, 5%, l/4W, Carbon

(CONTINUED)

19" and 25" PM-C Parts List (Cont.)

AR325	EP14X106	1 meg ohm, 5%, l/4W, Carbon
AR326	EP14X105	100K ohm, 5%, l/4W, Carbon
AR327	EP14X105	100K ohm, 5%, l/4W, Carbon
AR328	EP14X394	6.2K ohm, 5%, l/4W, Carbon
AR329	EP14X140	330K ohm, 5%, l/4W, Carbon
AR330	EP14X394	6.2K ohm, 5%, l/4W, Carbon
AR331	EP14X133	470K ohm, 5%, l/4W, Carbon
AR332	EP14X133	470K ohm, 5%, l/4W, Carbon
AR333	EP14X133	470K ohm, 5%, l/4W, Carbon
AR334	EP14X133	470K ohm, 5%, l/4W, Carbon
AR335	EP14X133	470K ohm, 5%, l/4W, Carbon
AR336	EP14X133	470K ohm, 5%, l/4W, Carbon
AR337	ES14X64	2K ohm, 5%, l/4W, Carbon
AR338	ES14X64	2K ohm, 5%, l/4W, Carbon
AR339	ES14X64	2K ohm, 5%, l/4W, Carbon
AR340	ES14X64	2K ohm, 5%, l/4W, Carbon
AR341	ES14X64	2K ohm, 5%, l/4W, Carbon
AR342	ES14X64	2K ohm, 5%, l/4W, Carbon

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
AR321	EP49X490	SEPARATION-500 ohm, 20%

INTEGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
AIC300	EP84X119	DL & QD DP AMP
AIC301	EP84X143	AUDIO SWITCH

TRANSISTOR

REF. NO.	PART NO.	DESCRIPTION
AQ300	ES15X90	AUDIO STEREO SWITCH-PNP, Silicon

DIODE

REF. NO.	PART NO.	DESCRIPTION
AY300	EP16X58	Zener

19" PM-C

SWEEP CIRCUIT BOARD

EP93X520

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C701	EP25X110	3300pf, 10%, 200V, Mylar
C703	EP18X217	330pf, 10%, 500V SHiK Cer Disc
★C705	EP25X179	.03µf, 5%, 200V Polypronpylene
C706	EP25X19	.01µf, 10%, 100V, Mylar
C928	EP18X277	220pf, 10%, 1KV, Cer. Disc
C929	EP31X103	1000µf, +100-10%, 40V, Elect.
C930	EP25X77	.1µf, 20%, 50V, Polyester
C931	EP31X103	1000µf, +100-10%, 40V, Elect.
C932	EP18X277	220pf, 10%, 1KV, Cer. Disc
C933	EP31X181	330µf, 20%, 200V, Elect.
C934	EP20X8	.1µf, 10%, 200V, Mylar
C935	EP31X153	22µf, +50-20%, 160V, Elect.
C936	EP18X277	220pf, 10%, 1KV, Cer. Disc
C937	EP31X169	100µf, 20%, 50V, Elect.
C938	EP25X77	.1µf, 20%, 50V, Polyester
C939	EP31X169	100µf, 20%, 50V, Elect.
C940	EP25X184	4700pf, 20%, 125V, Polyester
C941	EP25X184	4700pf, 20%, 125V, Polyester
C950	EP18X279	470pf, 10%, 1KV, Cer. Disc
C951	EP18X259	1000pf, 20% 500V SHiK Cer Disc
C952	EP31X159	470µf, 20%, 25V, Elect.
C953	EP18X279	470pf, 10%, 1KV, Cer. Disc
C954	EP31X174	47µf, 20%, 100V, Elect.
C955	EP18X259	1000pf, 20% 500V SHiK Cer Disc
C956	EP25X89	.047µf, 20%, 300V, Mylar
C957	EP18X279	470pf, 10%, 1KV, Cer. Disc
C958	EP18X81	1000pf, 10%, 1KV, Cer. Disc
C959	EP31X155	4.7µf, +50-20%, 160V, Elect.
C960	EP18X279	470pf, 10%, 1KV, Cer. Disc
C961	EU22X76	1000pf, 20%, 500V HiK Cer Disc
C962	EP31X169	100µf, 20%, 50V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
★MOV901	EP14X353	VARISTOR-Metal Oxide
R703	EP14X348	.47 ohm, 5%, 2W, Metal Oxide
★R707	EP14X351	1.5K ohm, 5%, 2W, Metal Oxide
★R709	EP14X318	3 ohm, 10%, 5W, Wirewound
R928	EP14X152	1 ohm, 5%, 2W, Metal Oxide
R929	EP14X365	1.8 meg ohm, 10%, 1/2W, Carbon
★R930	EP14X350	330 ohm, 5%, 2W, Metal Oxide
★R931	ES14X80	2.2 ohm, 5%, 1/2W, Carbon
★R932	EP14X152	1 ohm, 5%, 1W, Metal Oxide
★R933	ES14X80	2.2 ohm, 5%, 1/2W, Carbon
★R934	ES14X79	1 ohm, 5%, 1/2W, Carbon
★R937	EP14X187	100 ohm, 5%, 1/2W, Carbon
R938	EP14X403	220K ohm, 5%, 1/2W, Carbon
R939	EP14X365	1.8 meg ohm, 10%, 1/2W, Carbon
★R940	EP14X363	6.8K ohm, 5%, l/8W, Carbon
★R941	EP14X363	6.8K ohm, 5%, l/8W, Carbon
R955	EP14X349	1.8 ohm, 5%, 2W, Metal Oxide
★R956	ES14X80	2.2 ohm, 5%, 1/2W, Carbon

TRANSISTOR

REF. NO.	PART NO.	DESCRIPTION
Q701	EP15X123	HORIZ DRIVER-NPN, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y930	EP57X11	Rectifier
Y931	EP57X5	Rectifier, 400V
Y932	EP57X11	Rectifier
Y934	EP57X5	Rectifier
Y935	EP16X154	Rectifier
Y936	EP57X5	Rectifier
Y938	EP16X154	Rectifier

COILS & TRANSFORMERS

REF. NO.	PART NO.	DESCRIPTION
★L703	EP36X463	CHOKE-15µh

(CONTINUED)

19" and 25" PM-C Parts List (Cont.)

L910	EU36X536	CHOKE-5.6µh, 10%
L911	EU36X536	CHOKE-5.6µh, 10%
L912	EU36X536	CHOKE-5.6µh, 10%
RY900	EP41X132	RELAY
★T701	EP77X61	TRANSFORMER-H.V.
T702	EP64X57	TRANSFORMER-Buffer
★T901	EP88X50	TRANSFORMER-Low Voltage Power

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
	EP8X36	ANODE CONNECTOR
FB900	EP12X6	BEAD-Shield
FB904	EP12X6	BEAD-Shield
FB905	EP12X4	BEAD-Shield
FB906	EP12X4	BEAD-Shield
FB907	EP12X4	BEAD-Shield
FB908	EP12X4	BEAD-Shield
PG27	EP8X90	CONNECTOR-3 Pos.
	EP3X38	WASHER-On Heat Sink (2 Used)

25" PM-C/D

SWEEP CIRCUIT BOARD

EP93X521

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C701	EP25X110	3300pf, 10%, 200V, Mylar
C703	EP18X217	330pf, 10%, 500V, SHiK, Cer Disc
★C705	EP25X180	.027µf, 5%, 200V, Polypronpylene
C706	EP25X19	.01µf, 10%, 100V, Mylar
C928	EP18X277	220pf, 10%, 1KV, Cer. Disc
C929	EP31X103	1000µf, +100-10%, 40V, Elect.
C930	EP25X77	.1µf, 20%, 50V, Polyester
C931	EP31X103	1000µf, +100-10%, 40V, Elect.
C932	EP18X277	220pf, 10%, 1KV, Cer. Disc
C933	EP31X181	330µf, 20%, 200V, Elect.
C934	EP20X8	.1µf, 10%, 200V, Mylar
C935	EP31X153	22µf, +50-20%, 160V, Elect.
C936	EP18X277	220pf, 10%, 1KV, Cer. Disc
C937	EP31X169	100µf, 20%, 50V, Elect.
C938	EP25X77	.1µf, 20%, 50V, Polyester
C939	EP31X169	100µf, 20%, 50V, Elect.
C940	EP25X184	4700pf, 20%, 125V, Polyester
C941	EP25X184	4700pf, 20%, 125V, Polyester
C950	EP18X279	470pf, 10%, 1KV, Cer. Disc
C951	EP18X259	1000pf, 20%, 500V, SHiK, Cer. Disc
C952	EP31X159	470µf, 20%, 25V, Elect.
C953	EP18X279	470pf, 10%, 1KV, Cer. Disc
C954	EP31X174	47µf, 20%, 100V, Elect.
C955	EP18X259	1000pf, 20%, 500V, SHiK, Cer. Disc
C956	EP25X89	.047µf, 20%, 300V, Mylar
C957	EP18X279	470pf, 10%, 1KV, Cer. Disc
C958	EP18X81	1000pf, 10%, 1KV, Cer. Disc
C959	EP31X155	4.7µf, +50-20%, 160V, Elect.
C960	EP18X279	470pf, 10%, 1KV, Cer. Disc
C961	EU22X76	1000pf, 20%, 500V, HiK, Cer. Disc
C962	EP31X169	100µf, 20%, 50V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
★MOV901	EP14X353	VARISTOR-Metal Oxide
R703	EP14X348	.47 ohm, 5%, 2W, Metal Oxide
★R707	EP14X351	1.5K ohm, 5%, 2W, Metal Oxide
★R709	EP14X318	3 ohm, 10%, 5W, Wirewound
R928	EP14X152	1 ohm, 5%, 2W, Metal Oxide
R929	EP14X365	1.8 meg ohm, 10%, 1/2W, Carbon
★R930	EP14X350	330 ohm, 5%, 2W, Metal Oxide
★R931	ES14X80	2.2 ohm, 5%, 1/2W, Carbon
★R932	EP14X152	1 ohm, 5%, 1W, Metal Oxide
★R933	ES14X80	2.2 ohm, 5%, 1/2W, Carbon
★R934	ES14X79	1 ohm, 5%, 1/2W, Carbon
★R937	EP14X187	100 ohm, 5%, 1/2W, Carbon
R938	EP14X403	220K ohm, 5%, 1/2W, Carbon
R939	EP14X365	1.8 meg ohm, 10%, 1/2W, Carbon
★R940	EP14X363	6.8K ohm, 5%, l/4W, Carbon
★R941	EP14X363	6.8K ohm, 5%, l/4W, Carbon
R955	EP14X269	2.2 ohm, 5%, 2W, Metal Oxide
★R956	ES14X80	2.2 ohm, 5%, 1/2W, Carbon

TRANSISTOR

REF. NO.	PART NO.	DESCRIPTION
Q701	EP15X123	HORIZ DRIVER-NPN, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y930	EP57X11	Rectifier
Y931	EP57X5	Rectifier, 400V
Y932	EP57X11	Rectifier
Y934	EP57X5	Rectifier, 400V
Y935	EP16X154	Rectifier
Y936	EP57X5	Rectifier, 600V
Y938	EP16X154	Rectifier

COILS & TRANSFORMER

REF. NO.	PART NO.	DESCRIPTION
★L703	EP36X463	CHOKE-15µh
L910	EU36X536	CHOKE-5.6µh, 10%
L911	EU36X536	CHOKE-5.6µh, 10%
L912	EU36X536	CHOKE-5.6µh, 10%
RY900	EP41X132	RELAY
★T701	EP77X62	TRANSFORMER-H.V.
T702	EP64X57	TRANSFORMER-Buffer
★T901	EP88X50	TRANSFORMER-Low Voltage Power

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
	EP60X13	AIR GAP-Transformer
	EP8X36	ANODE CONNECTOR
FB900	EP12X6	BEAD-Shield
FB904	EP12X6	BEAD-Shield
FB905	EP12X4	BEAD-Shield
FB906	EP12X4	BEAD-Shield
FB907	EP12X4	BEAD-Shield
FB908	EP12X4	BEAD-Shield
PG27	EP8X36	CONNECTOR-3 Pos.
	EP3X38	WASHER-On Heat Sink (2 Used)

(CONTINUED)

19" & 25" PC/PM-A/B/C/D/F/H/J

VIR CIRCUIT BOARD ASM

EP93X462

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
CV10	EP25X87	.047µf, 20%, 50V, Polyester
CV11	EP18X204	470pf, 10%, 50V, Cer. Disc
CV12	EP25X87	.047µf, 20%, 50V, Polyester
CV13	EP18X198	2200pf, 30%, 25V, Cer. Disc
CV14	EP31X149	10µf, 10%, 35V, Elect.
CV15	EP25X87	.047µf, 20%, 50V, Polyester
CV16	EP25X87	.047µf, 20%, 50V, Polyester
CV17	EP25X87	.047µf, 20%, 50V, Polyester
CV18	EP18X204	470pf, 10%, 50V, Cer. Disc
CV19	EP18X194	100pf, 10%, 50V, SHiK, Cer. Disc
CV21	EP31X169	100µf, 10%, 35V, Elect.
CV22	EP18X197	1000pf, 20%, 50V, Cer. Disc
CV23	EP25X87	.047µf, 20%, 50V, Polyester
CV24	EP31X141	220µf, 10%, 16V, Elect.
CV25	EP18X169	.01µf, 30%, 25V, Cer. Disc
CV26	EP31X45	47µf, 10%, 16V, Elect.
CV27	EP25X87	.047µf, 20%, 50V, Polyester
CV29	EP25X87	.047µf, 20%, 50V, Polyester
CV30	EP18X194	100pf, 10%, 50V, SHiK, Cer. Disc
CV31	EP25X87	.047µf, 20%, 50V, Polyester
CV32	EP25X87	.047µf, 20%, 50V, Polyester
CV33	EP31X162	100µf, 10%, 16V, Elect.
CV34	EP31X45	47µf, 10%, 16V, Elect.
CV35	EP25X87	.047µf, 20%, 50V, Polyester
CV36	EP18X271	1200pf, 10%, 50V, HiK, Cer. Disc
CV37	EP25X87	.047µf, 20%, 50V, Polyester
CV38	EP18X194	100pf, 10%, 50V, SHiK, Cer. Disc
CV39	EP18X169	.01µf, 30%, 25V, Cer. Disc
CV40	EP18X204	470pf, 10%, 50V, Cer. Disc
CV45	EP31X166	1µf, 20%, 50V, Elect.
CV51	EP18X214	.022µf, 20%, 500V, Cer. Disc

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
RV10	EP14X183	3.3K ohm, 5%, l/4W, Carbon
RV11	ES14X62	l.8K ohm, 5%, l/4W, Carbon
RV12	EP14X243	2.2K ohm, 5%, l/4W, Carbon
RV13	ES14X71	1K ohm, 5%, l/4W, Carbon
RV14	EP14X437	3.9K ohm, 5%, l/4W, Carbon
RV16	ES14X71	1K ohm, 5%, l/4W, Carbon
RV17	ES14X71	1K ohm, 5%, l/4W, Carbon
RV18	EP14X183	3.3K ohm, 5%, l/4W, Carbon
RV19	EP14X304	2.7K ohm, 5%, l/4W, Carbon
RV20	EP14X183	3.3K ohm, 5%, l/4W, Carbon
RV21	EP14X131	47K ohm, 5%, l/4W, Carbon
RV22	EP14X131	47K ohm, 5%, l/4W, Carbon
RV23	ES14X71	1K ohm, 5%, l/4W, Carbon
RV24	EP14X243	2.2K ohm, 5%, l/4W, Carbon
RV25	ES14X71	1K ohm, 5%, l/4W, Carbon
RV26	EP14X131	47K ohm, 5%, l/4W, Carbon
RV27	EP14X129	220 ohm, 5%, l/4W, Carbon
RV28	EP14X131	47K ohm, 5%, l/4W, Carbon
RV29	EP14X103	10K ohm, 5%, l/4W, Carbon
RV30	EP14X414	18K ohm, 5%, l/4W, Carbon
RV31	EP14X103	10K ohm, 5%, l/4W, Carbon
RV32	EP14X140	330K ohm, 5%, l/4W, Carbon
RV33	EP14X438	750K ohm, 5%, l/4W, Carbon
RV34	EP14X424	8.2K ohm, 5%, l/4W, Carbon
RV35	EP14X436	3.6K ohm, 5%, l/4W, Carbon
RV36	EP14X370	9.1K ohm, 5%, l/4W, Carbon
RV37	ES14X71	1K ohm, 5%, l/4W, Carbon
RV40	EP14X131	47K ohm, 5%, l/4W, Carbon
RV41	EP14X424	8.2K ohm, 5%, l/4W, Carbon
RV42	EP14X289	430 ohm, 5%, l/4W, Carbon
RV43	ES14X70	100 ohm, 5%, l/4W, Carbon
RV44	EP14X379	5.6K ohm, 5%, l/4W, Carbon
RV45	EP14X398	15K ohm, 5%, l/4W, Carbon
RV46	EP14X437	3.9K ohm, 5%, l/4W, Carbon
RV47	EP14X103	10K ohm, 5%, l/4W, Carbon
RV48	ES14X58	470 ohm, 5%, l/4W, Carbon
RV49	ES14X71	1K ohm, 5%, l/4W, Carbon
RV50	EP14X424	8.2K ohm, 5%, l/4W, Carbon
RV51	EP14X419	30K ohm, 5%, l/4W, Carbon
RV52	EP14X136	33K ohm, 5%, l/4W, Carbon
RV53	EP14X409	10 ohm, 5%, l/4W, Carbon
RV55	ES14X71	1K ohm, 5%, l/4W, Carbon
RV56	ES14X71	1K ohm, 5%, l/4W, Carbon
RV57	ES14X64	2K ohm, 5%, l/4W, Carbon

POTENTIOMETERS

REF. NO.	PART NO.	DESCRIPTION
RV15	EP49X472	5K ohm, 20%
RV39	EP49X472	5K ohm, 20%

INTEGRATED CIRCUIT

REF. NO.	PART NO.	DESCRIPTION
ICV10	EP84X60	MONO

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
QV10	EP15X88	NPN, Silicon
QV11	EP15X88	NPN, Silicon
QV12	EP15X88	NPN, Silicon
QV13	EP15X88	NPN, Silicon
QV14	EP15X88	NPN, Silicon
QV15	EP15X48	PNP, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
YV10	EU16X11	Silicon
YV11	EU16X11	Silicon
YV12	EU16X11	Silicon
YV13	EU16X11	Silicon
YV14	EU16X11	Silicon
YV15	EP16X19	Zener, 1W

COIL

REF. NO.	PART NO.	DESCRIPTION
LV50	EP36X33	CHOKE-56uh, 5%

19" PM-D CHASSIS PARTS LIST

(NOTE: Refer to Section 4 for Circuit Board Layouts and Replacement Parts Lists)

IMPORTANT SAFETY NOTICE

Product safety should be considered when component replacement is made in any area of a receiver. The (★) beside a part in the parts list and the shaded areas of the schematic diagram designates components in which safety can be of special significance. It is particularly recommended that exact cataloged parts be used for replacement of components which are designated by a (★) in the parts list and the shaded areas on the schematic diagram. Use of substitute replacement parts which do not have the same safety characteristics as recommended in factory service information may create Shock, Fire or other hazards, or excessive X-Radiation.

CIRCUIT BOARD ASSEMBLIES

PART NO.	DESCRIPTION
EP93X626	AUDIO CIRCUIT BOARD (2 Watt Units)
EP93X571	AUDIO/VIDEO CIRCUIT BOARD
EP93X435	COMB FILTER CIRCUIT BOARD
EP93X523	HORIZ HEAT SINK CIRCUIT BOARD
EP93X604	POWER SUPPLY CIRCUIT BOARD (2 Watt Units)
EP93X605	POWER SUPPLY CIRCUIT BOARD (10 Watt Units)
EP93X610	RGB CIRCUIT BOARD
EP93X600	SIGNAL CIRCUIT BOARD
EP93X520	SWEEP CIRCUIT BOARD
EP93X462	VIR CIRCUIT BOARD

CHASSIS PARTS NOT ON CIRCUIT BOARDS

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R74	EP14X482	51 ohm, 5%, 3W, Metal Oxide
★R929	EP14X365	1.8 meg ohm, 10%, 1/2W, Carbon
★R939	EP14X365	1.8 meg ohm, 10%, 1/2W, Carbon
R5000	EP14X103	10K ohm, 5%, 1/2W, Carbon
R5001	EP14X103	10K ohm, 5%, 1/2W, Carbon
R5003	EP14X103	10K ohm, 5%, 1/2W, Carbon
R5004	EP14X103	10K ohm, 5%, 1/2W, Carbon
R5005	EP14X127	82 ohm, 5%, 1/2W, Carbon
R5020	EP14X295	910 ohm, 5%, 1/2W, Carbon
R5021	ES14X67	100 ohm, 5%, 1/2W, Carbon
R5022	EP14X295	910 ohm, 5%, 1/2W, Carbon
R5023	ES14X67	100 ohm, 5%, 1/2W, Carbon

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
R5010	EP49X488	AUDIO LEVEL-50K ohm, 20% (Front)
R5011		AUDIO LEVEL-50K ohm (Rear)
R5260	EP49X395	SHARPNESS-1K ohm, 20%

COILS & TRANSFORMER

REF. NO.	PART NO.	DESCRIPTION
	EP36X462	COIL-Degaussing
	EP42X8	CONVERGENCE ASM.
	★EP76X38	YOKE ASM
L50	ES36X82	CHOKE-220μh, 10%
L5000	EP36X471	CHOKE-.33μh, 20%, (10 Watt)
L5001	EP36X436	CHOKE-Filament
	EP77X67	TRANSFORMER-H.V.
	EP88X50	TRANSFORMER-Power

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
	EP3X57	ANODE RETAINER-Clip
	EP92X116	BRACKET-Chassis Frame, Front, Plastic
	EP92X117	BRACKET-Chassis Frame, Rear, Plastic
	EP2X542	BRACKET-VIR Board Support, Plastic (2)
	EP8X108	CABLE-7" Antenna To Tuner, W/Phono Plug And Screw Connector
	EP8X97	CABLE-11" W/2 Phono Plugs UHF/VHF To Tuner Control Board
	EP8X103	CABLE-20" Long W/2 Phono Plugs
	EP2X548	CLIP-Anode Lead
	ES3X29	CLIP-Antenna Terminal
	EP2X545	CLIP-Chassis Mounting (2 Used)
	EP2X540	CLIP-Power Cord Retainer
RL1	EP8X67	CONNECTOR-4 Pos.
RL1B	EP8X43	CONNECTOR-2 Pins
RL2	EP8X90	CONNECTOR-5 Pos.
RL3	EP8X84	CONNECTOR-6 Pos.
PG5/RL5A	EP8X44	CONNECTOR-6 Pos.
RL6	EP8X66	CONNECTOR-7 Pos.
RL7/RL7A	EP8X68	CONNECTOR-2 Pos.
PG12	EP8X30	CONNECTOR-1 Pin
RL28	EP8X30	CONNECTOR-1 Pin
RL29	EP8X68	CONNECTOR-2 Pos.
RL31	EP8X90	CONNECTOR-5 Pos.
PG32/RL32	EP8X30	CONNECTOR-1 Pin
RL52	EP8X90	CONNECTOR-3 Pos.
RL64	EP8X94	CONNECTOR-4 Pos.
RL70	EP8X90	CONNECTOR-3 Pos.
PG74/RL74	EP8X43	CONNECTOR-2 Pins
RL79B	EP8X30	CONNECTOR-1 Pin
RL80	EP8X90	CONNECTOR-5 Pos.
RL82	EP8X90	CONNECTOR-5 Pos.
PG/RL100	EP8X44	CONNECTOR-6 Pins
RL225	EP8X68	CONNECTOR-2 Pins
RL244B	EP8X91	CONNECTOR-9 Pos.
PG/RL250	EP8X43	CONNECTOR-2 Pins
	★EP66X19	CORD-AC Power, Polarized
	EP2X577	COVER-Power Supply Board, Plastic
	EP3X53	CUSHION-Yoke Wedge (3 Used)
	EP3X54	CUSHION-Switch Pads, Foam
	EP2X580	GUIDE-For Screen Control (Plastic)
J5001	EP8X127	JACK-Video 1, Phono Type
J5002	EP8X127	JACK-Audio Left, Phono Type
J5003	EP8X127	JACK-Audio Right, Phono Type
J5004	EP8X127	JACK-Video 2, Phono Type
J5005	EP8X127	JACK-Audio Left, Phono Type
J5006	EP8X127	JACK-Audio Right, Phono Type
J5007	EP8X127	JACK-Video Out, Phono Type
J5008	EP8X127	JACK-Fix Audio Out Left, Phono Type
J5009	EP8X127	JACK-Fix Audio Out Right, Phono Type
J5015/5016	EP8X127	JACK-External Amplifiers, Phono Type
J5102	EP8X127	JACK-Stereo IF Input, Phono Type
	EP2X590	RETAINER-Cord Holder, Plastic
	EP2X581	RETAINER-CRT Ground Hook, Lexan
	EP2X578	RETAINER-Circuit Board Hold Down
	EP69X35	SHAFT-Extention For Focus, Plastic
	EP34X69	SOCKET-CRT
J01	EP34X71	SOCKET-8 Pins, Din
J5100	EP34X70	SOCKET-External Stereo, 8-Pins
	EP3X56	SPRING-CRT Ground
S5300	EP39X134	SWITCH-On/Off External Amplifiers, Slide Type, DPDT
SW5008	EP39X146	SWITCH-Cable Select, Slide Type
	EP3X54	SWITCH PADS-Foam (MP130)
	EP8X129	TERMINAL-Speakers, Push
	EP3X38	WASHER-Spacer
	EP90X3	WIRE TIE

26″ PM-D CHASSIS PARTS LIST

(NOTE: Refer to Section 4 for Circuit Board Layouts and Replacement Parts Lists)

IMPORTANT SAFETY NOTICE

Product safety should be considered when component replacement is made in any area of a receiver. The (★) beside a part in the parts list and the shaded areas of the schematic diagram designates components in which safety can be of special significance. It is particularly recommended that exact cataloged parts be used for replacement of components which are designated by a (★) in the parts list and the shaded areas on the schematic diagram. Use of substitute replacement parts which do not have the same safety characteristics as recommended in factory service information may create Shock, Fire or other hazards, or excessive X-Radiation.

CIRCUIT BOARD ASSEMBLIES

PART NO.	DESCRIPTION
EP93X571	AUDIO/VIDEO CIRCUIT BOARD
EP93X435	COMB FILTER CIRCUIT BOARD
EP93X636	STEREO AMPLIFIER CIRCUIT BOARD
EP93X426	HORIZ HEAT SINK CIRCUIT BOARD
EP93X609	POWER SUPPLY CIRCUIT BOARD
EP93X611	RGB CIRCUIT BOARD
EP93X572	SIGNAL CIRCUIT BOARD
EP93X603	
EP93X553	VIR CIRCUIT BOARD

CHASSIS PARTS NOT ON CIRCUIT BOARDS

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C4000	EP31X106	3.3μf, 20%, 25V, Bi Polar, Elect.
C4001	EP31X106	3.3μf, 20%, 25V, Bi Polar, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R74	EP14X482	51 ohm, 5%, 3W, Metal Oxide
R4001	ES14X59	560 ohm, 5%, 1/2W, Carbon
R4002	ES14X59	560 ohm, 5%, 1/2W, Carbon
R5000	EP14X103	10K ohm, 5%, 1/2W, Carbon
R5001	EP14X103	10K ohm, 5%, 1/2W, Carbon
R5003	EP14X103	10K ohm, 5%, 1/2W, Carbon
R5004	EP14X103	10K ohm, 5%, 1/2W, Carbon
R5020	EP14X295	910 ohm, 5%, 1/2W, Carbon
R5021	ES14X67	100 ohm, 5%, 1/2W, Carbon
R5022	EP14X295	910 ohm, 5%, 1/2W, Carbon
R5023	ES14X67	100 ohm, 5%, 1/2W, Carbon

POTENTIOMETERS

REF. NO.	PART NO.	DESCRIPTION
R5010	EP49X458	AUDIO LEVEL-50K ohm, 20% (Front)
R5011		AUDIO LEVEL-50K ohm, 20% (Rear)

DIODE

REF. NO.	PART NO.	DESCRIPTION
Y210	ES16X27	Silicon

COILS & TRANSFORMER

REF. NO.	PART NO.	DESCRIPTION
	EP36X300	COIL-Degaussing
	EP42X8	CONVERGENCE ASM.
	★EP76X41	YOKE ASM
L50	ES36X82	CHOKE-220μh, 10%
L5000	EP36X471	CHOKE-.33μh, 20%
L5001	EP36X436	CHOKE-Filament
T900	EP88X55	TRANSFORMER-Clock, W/Mounting Brkt

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
	EP2X648	BRACKET-CRT Corner Mounting, Lexan
	EP92X116	BRACKET-Chassis Frame, Front, Plastic
	EP92X117	BRACKET-Chassis Frame, Rear, Plastic
	EP92X121	BRACKET-Stereo Board Mounting, Plastic
	EP2X542	BRACKET-VIR Board Support, Plastic (2)
	EP8X97	CABLE-13" Coaxial, W/Two Phono Plugs
	EP8X103	CABLE-20" Coaxial, W/Two Phono Plugs
	EP2X548	CLIP-Anode Retainer
	EP3X57	CLIP-Anode Retainer, Plastic
	ES3X29	CLIP-Antenna Terminal
	EP2X540	CLIP-Power Cord Retainer
RL1	EP8X67	CONNECTOR-4 Pos.
RL3	EP8X84	CONNECTOR-6 Pos.
PG5	EP8X44	CONNECTOR-6 Pos.
RL6	EP8X66	CONNECTOR-7 Pos.
RL7	EP8X68	CONNECTOR-2 Pins
RL7A	EP8X68	CONNECTOR-2 Pins
RL12	EP8X30	CONNECTOR-1 Pin
PG32	EP8X30	CONNECTOR-1 Pin
RL52	EP8X90	CONNECTOR-5 Pos
RL64	EP8X94	CONNECTOR-4 Pos.
RL74/RL74	EP8X43	CONNECTOR-2 Pins
PG79B	EP8X30	CONNECTOR-1 Pin
RL80	EP8X71	CONNECTOR-6 Pos.
RL80A	EP8X90	CONNECTOR-5 Pos.
RL82	EP8X90	CONNECTOR-3 Pos.
PG84/RL84	EP8X30	CONNECTOR-1 Pin
PG85	EP8X44	CONNECTOR-6 Pins
RL231	EP8X30	CONNECTOR-1 Pin
PG900	EP8X41	CONNECTOR-3 Pins
	EP8X137	CONNECTOR-Stereo Hook-Up, Telephone Type
	★EP66X19	CORD-AC Power, Polarized
	EP2X577	COVER-Power Supply Board, Plastic
	EP3X53	CUSHION-Yoke Wedge
	EP2X580	GUIDE-For Screen Control (Plastic Tube)
J4000	EP8X128	JACK-Headphone, Telephone Type
J5001	EP8X127	JACK-Video I, Phono Type
J5002	EP8X127	JACK-Audio Left, Phono Type
J5003	EP8X127	JACK-Audio Right, Phono Type
J5004	EP8X127	JACK-Video II, Phono Type
J5005	EP8X127	JACK-Audio Left, Phono Type
J5006	EP8X127	JACK-Audio Right, Phono Type
J5007	EP8X127	JACK-Video Out, Phono Type
J5008	EP8X127	JACK-Fix Audio Out Left, Phono Type
J5009	EP8X127	JACK-Fix Audio Out Right, Phono Type
J5015/5016	EP8X127	JACK-External Amplifiers, Phono Type
J5102	EP8X127	JACK-Stereo IF Input, Phono Type
J5200/5201	EP8X119	JACK-External Speakers, Telephone Type
	EP2X578	RETAINER-Circuit Board Hold Down, Lexan (2 Used)
	EP2X579	RETAINER-Circuit Board Hold Down Dual, Plastic (1 Used)
	EP69X35	SHAFT-Extention For Focus, Plastic
J5100	EP34X70	SOCKET-External Stereo, 8-Pins
	EP3X56	SPRING-CRT Ground
	EP2X660	STRAP-For Degaussing Coil
SW5008	EP39X146	SWITCH-Cable Select, Slide Type
SW5300	EP39X134	SWITCH-Slide
	EP3X54	SWITCH PAD-Foam
	EP3X38	WASHER-Spacer
	EP90X3	WIRE TIE

9/85 (Supersedes 6/85)

GENERAL ELECTRIC

TELEVISION

SERVICE INFORMATION

TELEVISION
PM CHASSIS

SECTION 8
SPECIAL FEATURES
SCHEMATICS, PARTS LISTS
GENERAL INFORMATION

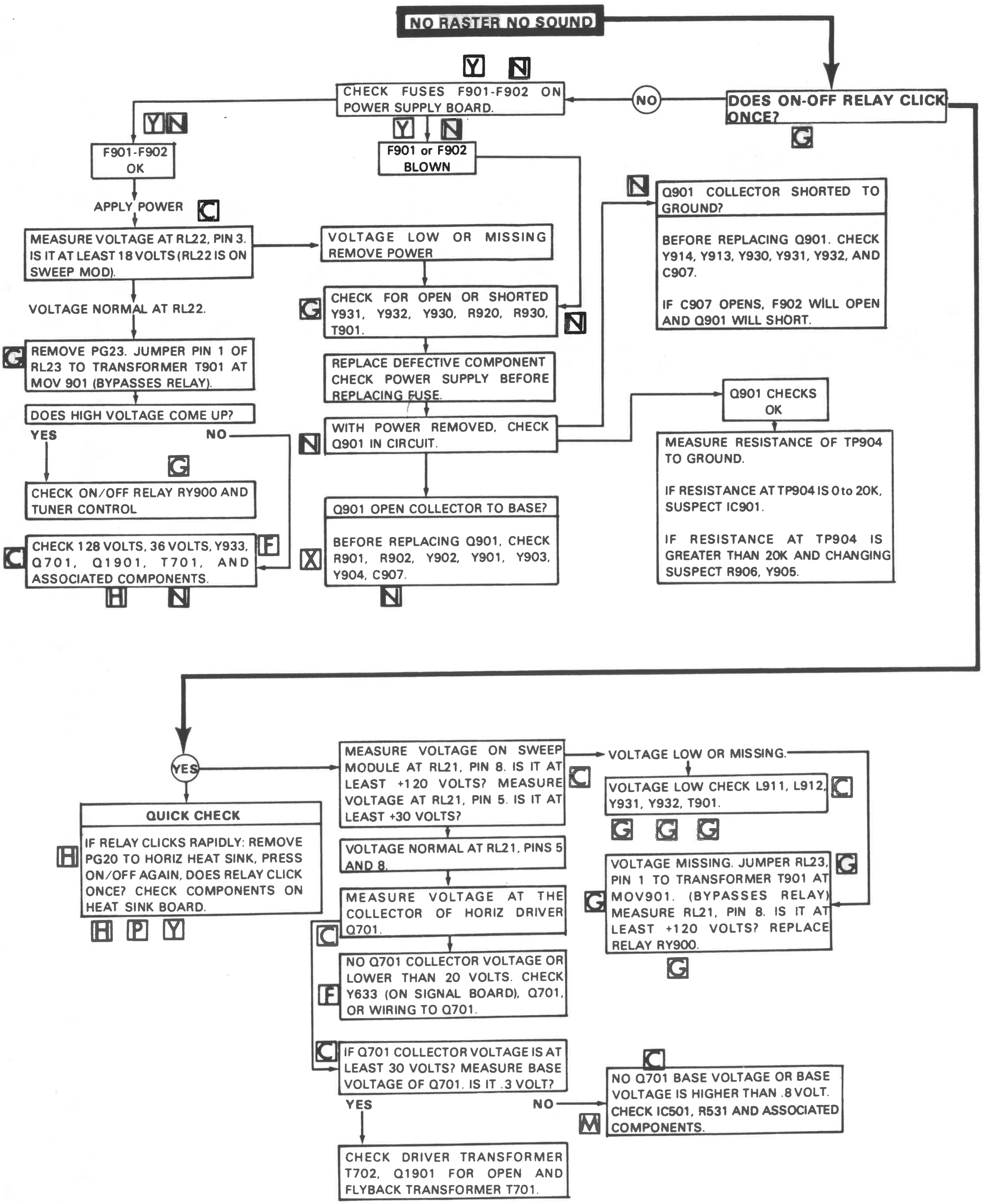
Section 8 Index

PM MAIN CHASSIS

TROUBLESHOOTING SECTION

PM CHASSIS TROUBLESHOOTING CHARTS

ORANGE LETTERS IDENTIFY CHASSIS LAYOUT GRID FOR COMPONENT LOCATION (SEE PM CHASSIS LAYOUT)



ORANGE LETTERS IDENTIFY CHASSIS LAYOUT GRID FOR COMPONENT LOCATION (SEE PM CHASSIS LAYOUT)

NO SYNC/ABNORMAL SYNC

DOES THE RECEIVER HAVE:

NO HORIZONTAL SYNC

- [V] CHECK THE ADJUSTMENT OF THE HORIZONTAL HOLD CONTROL, R505.
- [V] MEASURE THE VOLTAGE AT THE CATHODE OF Y990. IS IT
  - +5VDC? → CHECK FOR DEFECTIVE SOLDER CONNECTIONS, COMPONENT LEAD DRESS, AND SOLDER SHORTS AROUND PINS 11, 12, AND 13 OF IC501. [M]
  - 0VDC? → [X] CHECK Y992. FRONT TO BACK RATIO SHOULD BE AT LEAST 10:1 IN CIRCUIT. IF Y992 IS GOOD REPLACE THE HIGH VOLTAGE SHUTDOWN MODULE. [V]

NO VERTICAL SYNC

- CHECK THE ADJUSTMENT OF THE VERTICAL HOLD CONTROL, R629. [X]
- CHECK FOR SOLDER CONNECTIONS. COMPONENT LEAD DRESS, AND SOLDER SHORTS AROUND PINS 7 AND 8 OF IC501. [M]

NO VERTICAL OR HORIZONTAL SYNC

- [X] CHECK THE ADJUSTMENT OF THE VERTICAL AND HORIZONTAL HOLD CONTROL IS NO SUCCESS. [V]
- [B] CHECK Q110, Q114, Y503. FRONT TO BACK RESISTANCE SHOULD BE AT LEAST 10:1 IN CIRCUIT. [M]

NO AUDIO

MEASURE THE VOLTAGE AT IC190 PIN 8. WILL IT CHANGE FROM 0 TO APPROXIMATELY 4.5VDC AS "VOLUME UP" IS DEPRESSED AND HELD DOWN? [F]

- YES → [J] CHECK THE CONNECTIONS TO THE SPEAKER. CHECK Q194, Q195, Q196 AND Y111. FRONT TO BACK RESISTANCE SHOULD BE AT LEAST 10:1 IN CIRCUIT. [S]
- NO → [F] DISCONNECT PG2. DOES THE SOUND COME ON?
  - YES → PROBLEM IS IN THE VOLUME CONTROL CIRCUITRY OF THE ELECTRONIC TUNING SYSTEM.
  - NO → CHECK FOR SOLDER CONNECTIONS, COMPONENT LEAD DRESS, AND SOLDER SHORTS AROUND IC190. [F]

PM CHASSIS TROUBLESHOOTING CHARTS (Cont.)

ORANGE LETTERS IDENTIFY CHASSIS LAYOUT GRID FOR COMPONENT LOCATION (SEE PM CHASSIS LAYOUT)

NO VIDEO/ABNORMAL VIDEO

DOES THE SET HAVE COLOR BUT NOT THE BLACK AND WHITE PART OF THE PICTURE?

- YES → [L] [E] CHECK FOR OPEN DELAY LINE L220. CHECK Q204, FRONT TO BACK RESISTANCE SHOULD BE AT LEAST 10:1 IN CIRCUIT.
- NO → [E] UNPLUG PG7 FROM THE SIGNAL CIRCUIT BOARD. QUICKLY "MAKE AND BREAK" CONTACT BETWEEN PG7 AND ITS CONNECTING PINS ON THE BOARD. DOES THIS CAUSE THE RASTER TO CHANGE OR FLASH?
  - YES → THE PROBLEM IS IN THE ELECTRONIC TUNING SECTION. REFER TO SEPARATE MINI-MANUAL ON THE ELECTRONIC TUNING SYSTEM USED IN THE MODEL RECEIVER YOU ARE TROUBLESHOOTING.
  - NO → [A] CHECK Q105 FRONT TO BACK RESISTANCE SHOULD BE AT LEAST 10:1 IN CIRCUIT.

ABNORMAL GRAY SCALE

CHECK THE ADJUSTMENT OF THE CRT DRIVE CONTROLS. IF NO SUCCESS.

→ [Z] [T] [V] CHECK Q404, Q406, AND Q408. CHECK Q212, Q214, AND Q216. CHECK Y350, Y352, Y354. FRONT TO BACK RESISTANCE SHOULD BE AT LEAST 10:1 IN CIRCUIT.

NO VERTICAL SWEEP/ABNORMAL VERTICAL SWEEP

CHECK THE ADJUSTMENT OF THE VERTICAL HEIGHT AND HOLD CONTROLS, IF NO SUCCESS:

→ MEASURE THE VOLTAGE ON THE CATHODE OF Y936. IS THE VOLTAGE 56 VOLTS ±10%.

- YES → [N] [X] [G] [G] [F] UNSOLDER ONE END OF Y607 AND Y609. CHECK THEM FOR A FRONT TO BACK RESISTANCE OF AT LEAST 10:1. BEFORE RECONNECTING Y607 AND Y609 CHECK Q601, Q603, AND Y605 FOR A FRONT TO BACK RESISTANCE OF AT LEAST 10:1.
- NO → [G] [G] [N] CHECK Y936, R933 AND THE HVT WINDING BETWEEN PINS 3 AND 6.

NO COLOR/ABNORMAL COLOR

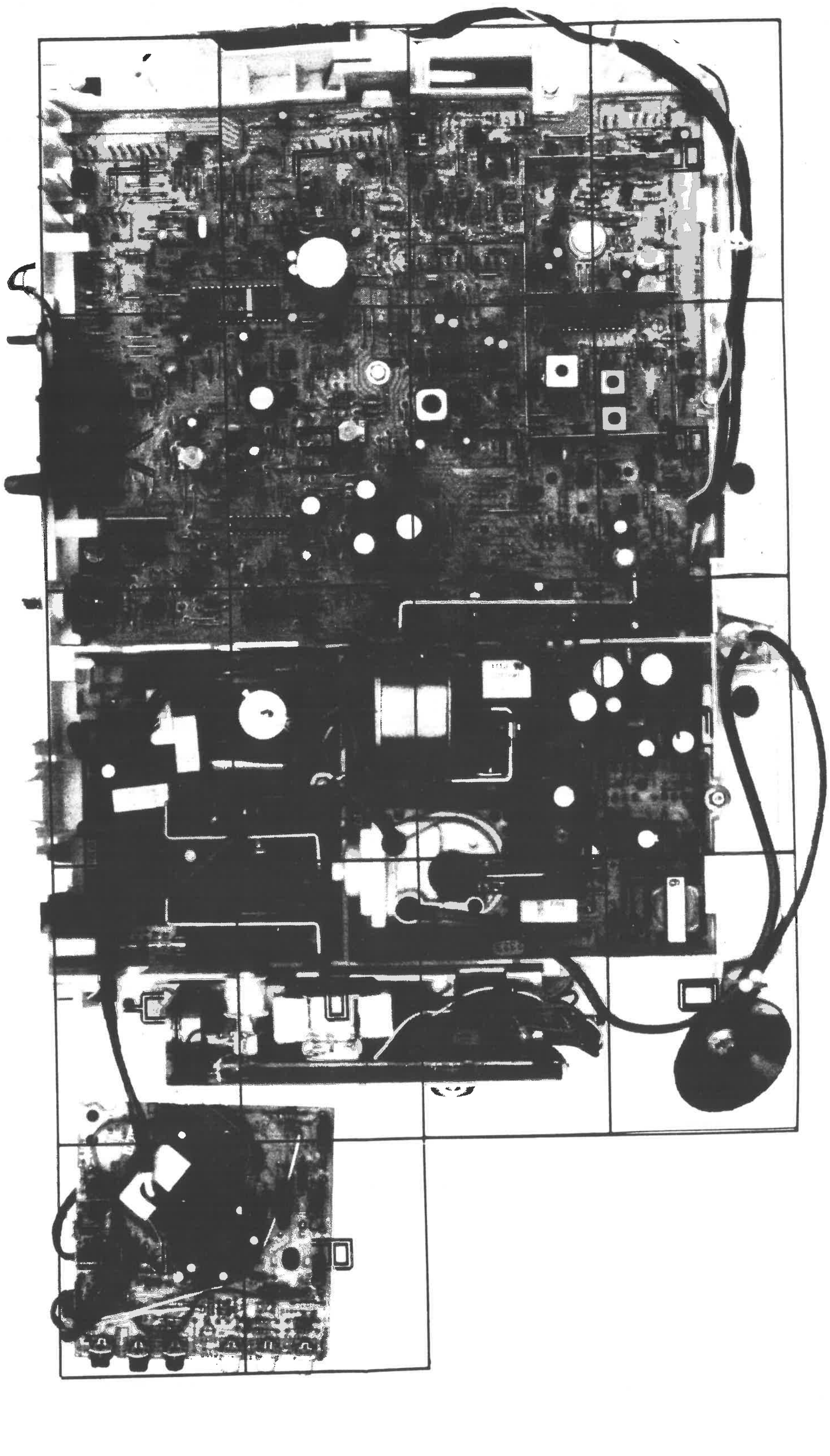
DOES THE SET HAVE A VIR MODULE?

- NO → [T] CHECK Q300, FRONT TO BACK RESISTANCE SHOULD BE AT LEAST 10:1 IN CIRCUIT.
- YES → TURN THE VIR SWITCH OFF. CAN NORMAL COLOR BE OBTAINED?
  - YES → TURN THE VIR SWITCH BACK ON. CHECK THE ADJUSTMENT OF THE PREFERENCE CONTROLS (VIR ONLY). IF NO SUCCESS REPLACE THE VIR MODULE.
  - NO → [L] REMOVE THE VIR MODULE, USE CLIP LEADS TO RESTORE JUMPER WIRE CONNECTIONS J1, AND J2, * CAN NORMAL COLOR BE OBTAINED?
    - YES → REPLACE THE VIR MODULE.
    - NO → CHECK Q300, FRONT TO BACK RESISTANCE SHOULD BE AT LEAST 10:1 IN CIRCUIT.

[L] * J1 AND J2 ARE CLIPPED FOR VIR.

TECHNICIAN NOTES

PM CHASSIS LAYOUT



TECHNICIAN NOTES

GENERAL ELECTRIC

TELEVISION

SERVICE INFORMATION

TELEVISION
PM CHASSIS

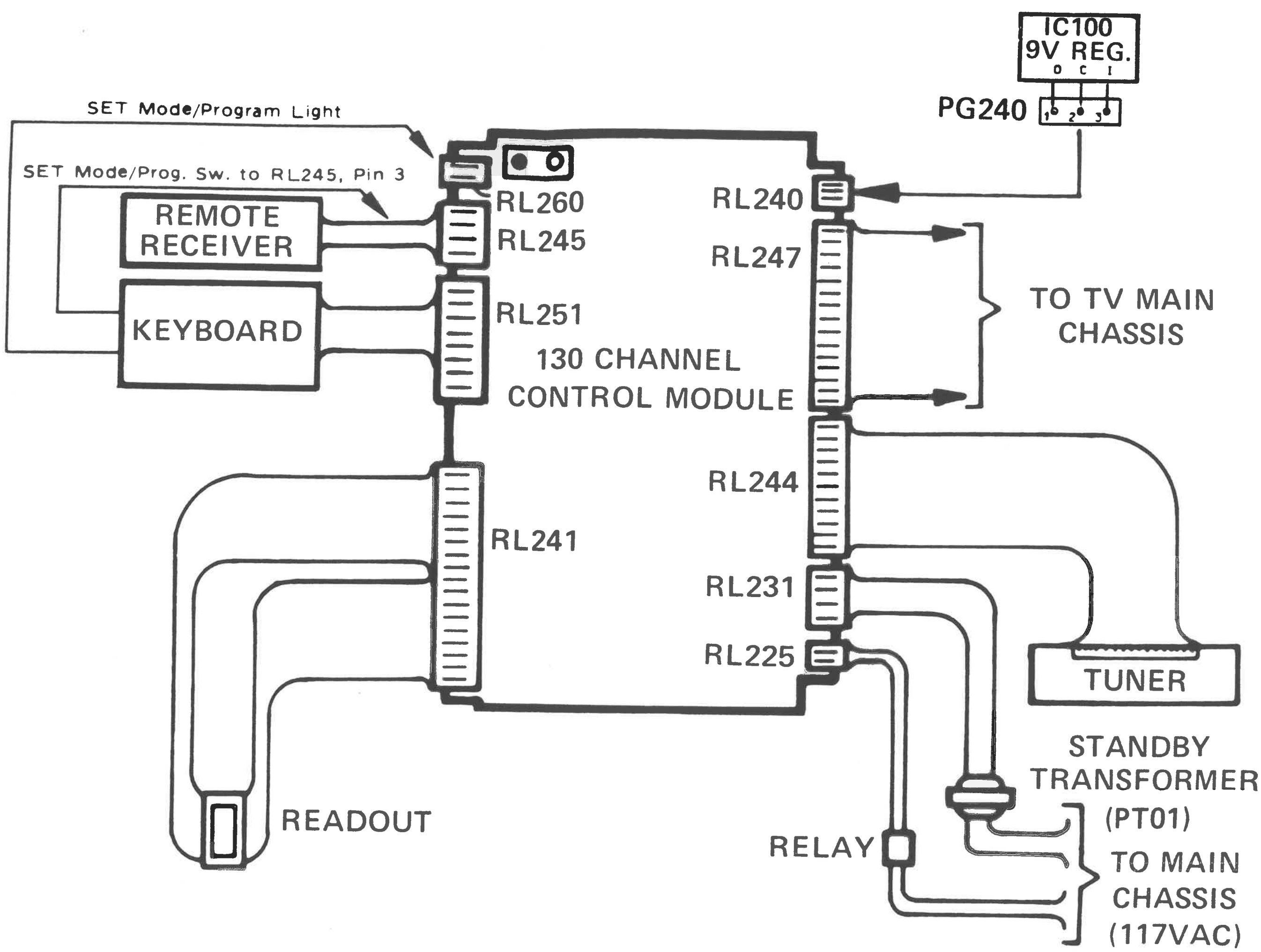
SECTION 6
ELECTRONIC TUNING SYSTEM

Section 6 Index

9/85 (Supersedes 6/83)

TUNER CONTROL BOARD PLUG LOCATIONS

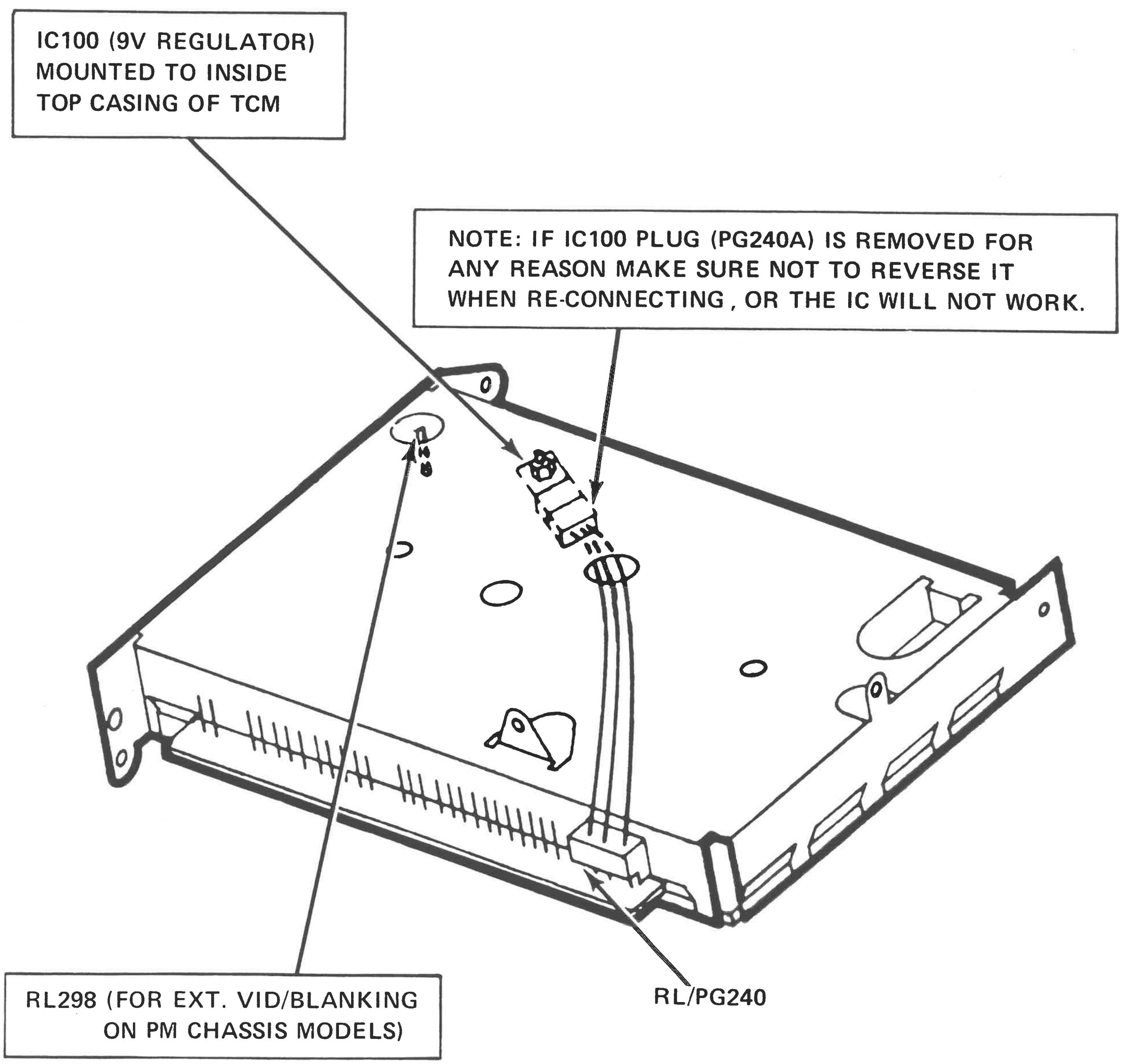
NOTE: REMOTE FUNCTIONS ARE FOR LMP/MP-130 TUNING MODELS ONLY.



TUNER CONTROL BOARD PLUG LOCATIONS

TUNER CONTROL MODULE

TUNER CONTROL MODULE WITH IC100 (9V REG)



TUNER CONTROL MODULE WITH IC100 (9V REG)

MP130 REMOTE CONTROL TRANSMITTER ASM

EP62X196

INTEGRATED CIRCUIT

REF. NO.	PART NO.	DESCRIPTION
IC901	EP84X232	IC-Remote Control Transmitter

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q901	EP15X88	NPN, Silicon
Q902	EP15X88	NPN, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y901	EP16X33	Infrared
Y902	EP16X33	Infrared

MISCELLANEOUS

PART NO.	DESCRIPTION
Common	BATTERY-I.5V, AAA
EP47X55	BUTTON-On/Off, Mute/Vol. Up & Down, Channel Up & Down/ Add/Clear, etc.
EP2X569	CLIPS-Battary Contacts, Positive, Negative & Bridge
EP47X67	BUTTON-Enter
EP47X57	CAP-Program Switch
EP4X469	CASE-Top, Bottom, Battery Cover, W/Medallion
EP4X470	COVER-Battery, Plastic
EP93X416	MAIN CIRCUIT BOARD-Complete (No Parts Available For Repair)

REMOTE CONTROL RECEIVER CIRCUIT BOARD

EP93X625

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C701	EP31X149	10μf, 20%, 35V, Elect.
C702	EP31X149	10μf, 20%, 35V, Elect.
C703	EP31X149	10μf, 20%, 35V, Elect.
C704	EP25X189	3300pf, 5%, 100V, Polypropylene
C705	EP31X162	100μf, 20%, 25V, Elect.
C706	EP25X171	.033μf, 20%, 50V, Polyester
C707	EP18X204	470pf, 10%, 50V, HiK, Cer. Disc

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R701	EP14X284	IK ohm, 5%, I/8W, Carbon
R702	EP14X105	100K ohm, 5%, I/4W, Carbon
R703	EP14X441	24 ohm, 5%, I/4W, Carbon
R704	EP14X105	100K ohm, 5%, I/4W, Carbon
R705	ES14X70	100 ohm, 5%, I/4W, Carbon

INTEGRATED CIRCUIT

REF. NO.	PART NO.	DESCRIPTION
IC701	EP84X227	Infrared Preamplifier

DIODE

REF. NO.	PART NO.	DESCRIPTION
Y701	EP16X157	Photo, Silicon

COIL

REF. NO.	PART NO.	DESCRIPTION
L701	EP36X447	COIL-Tuning

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
	EP2X552	LENS-Remote Control

TECHNICIAN NOTES

130 CHANNEL

Electronic Tuning Systems

TROUBLESHOOTING SECTION

INDEX TO ELECTRONIC TUNING SYSTEM TROUBLESHOOTING CHARTS

USE THE CHART FOR THE SYMPTOM THAT MOST CLOSELY APPROXIMATES THE CONDITION OF THE RECEIVER UNDER REPAIR.

PM CHASSIS

MP3 REMOTE RANDOM ACCESS AND SCAN PROGRAMMABLE

ELECTRONIC TUNING SYSTEM

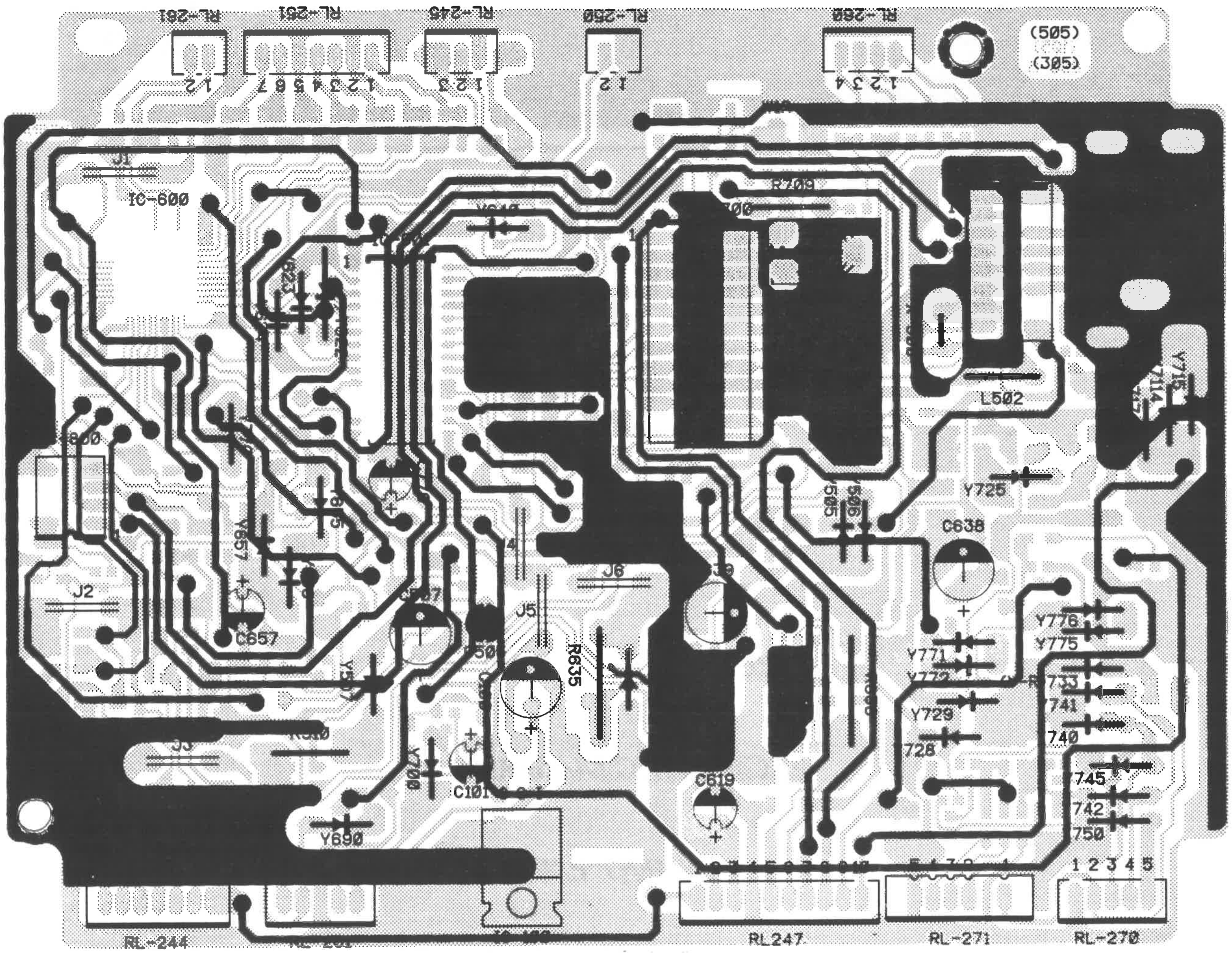
CIRCUIT BOARD LAYOUTS

SCHEMATIC DIAGRAMS

REPLACEMENT PARTS LIST

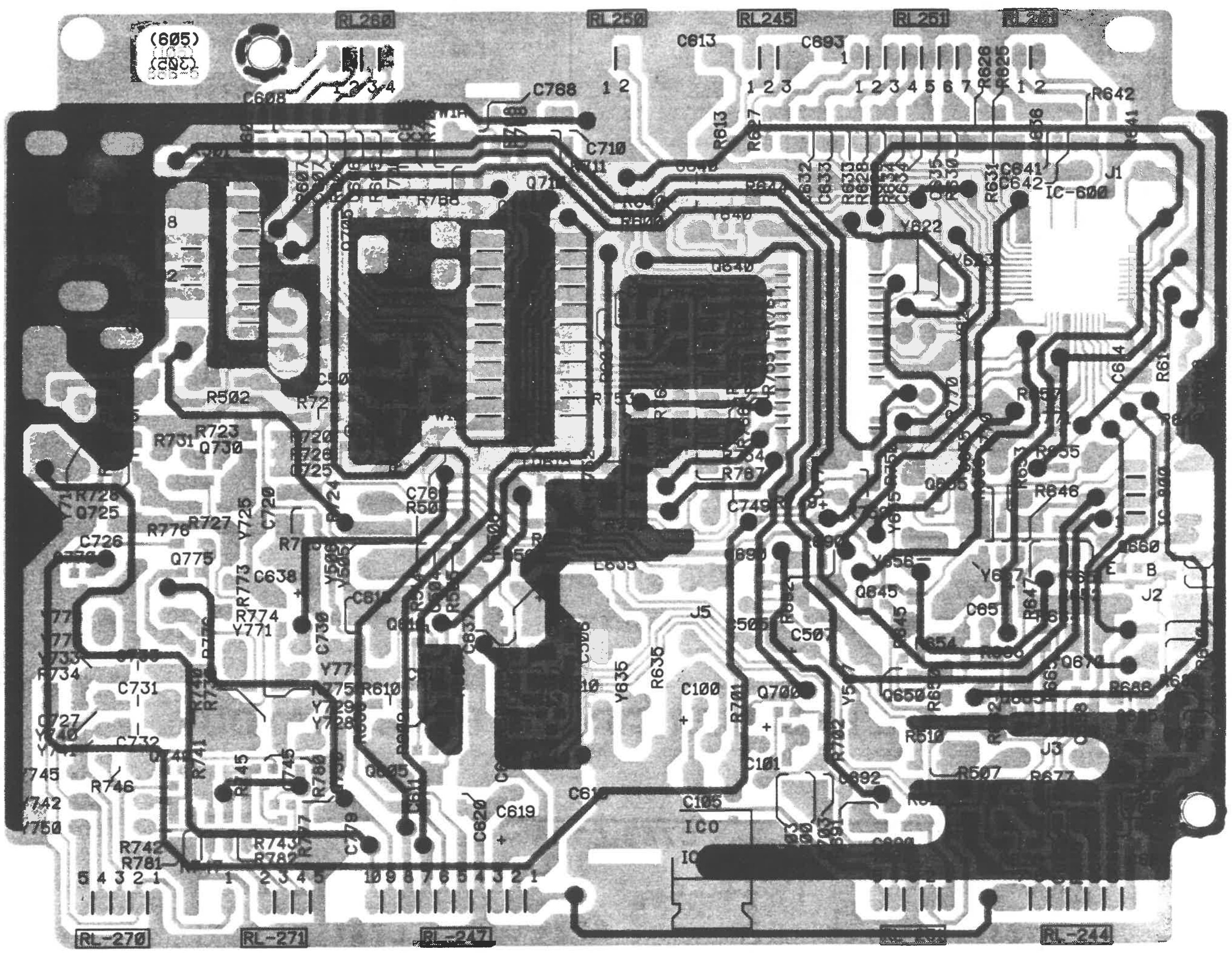
TROUBLESHOOTING CHARTS

MP3-130 TUNER CONTROL CIRCUIT BOARD LAYOUT



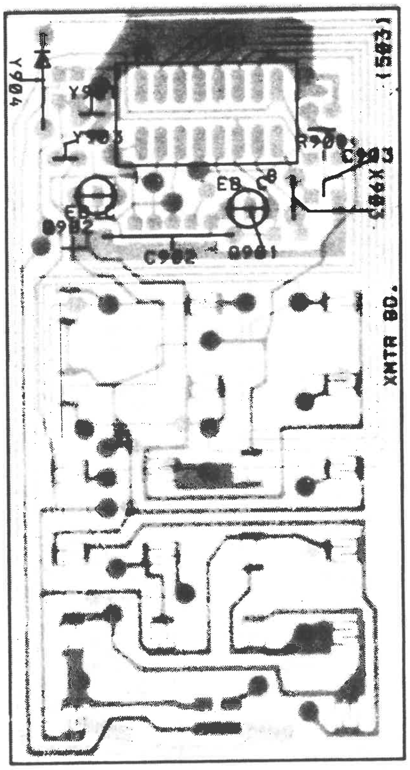
COMPONENT SIDE

MP3-130 TUNER CONTROL CIRCUIT BOARD LAYOUT

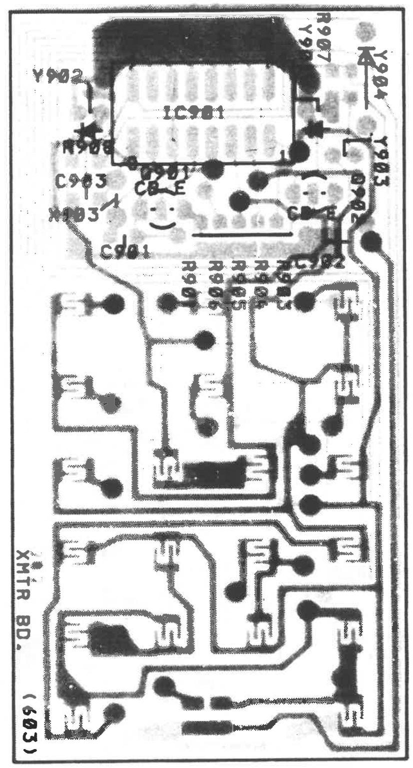


COPPER SIDE

MP3 REMOTE TRANSMITTER CIRCUIT BOARD LAYOUT



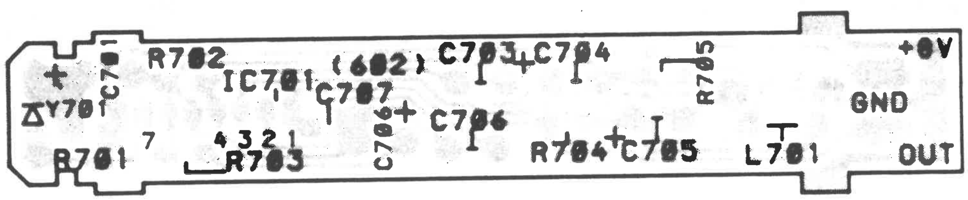
COMPONENT SIDE



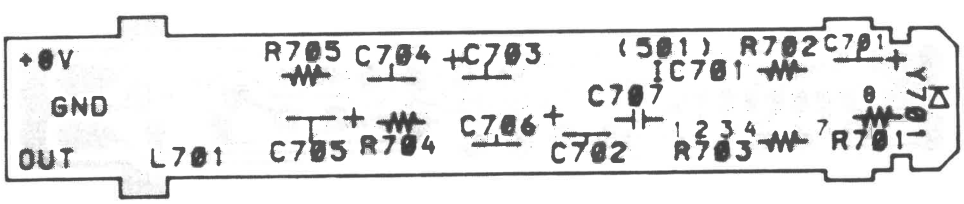
COPPER SIDE

(ORANGE COLOR = COMPONENT SIDE COPPER PATTERN)

MP3 REMOTE RECEIVER CIRCUIT BOARD LAYOUT

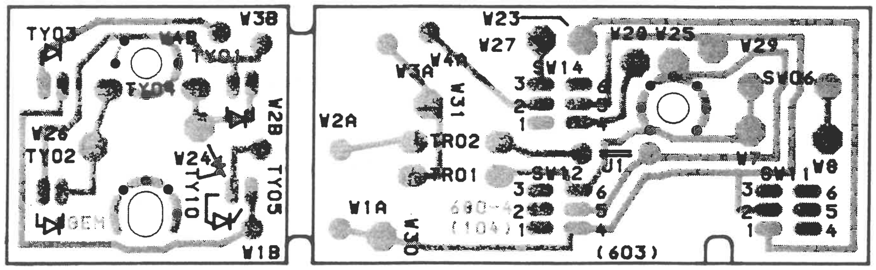


COMPONENT SIDE

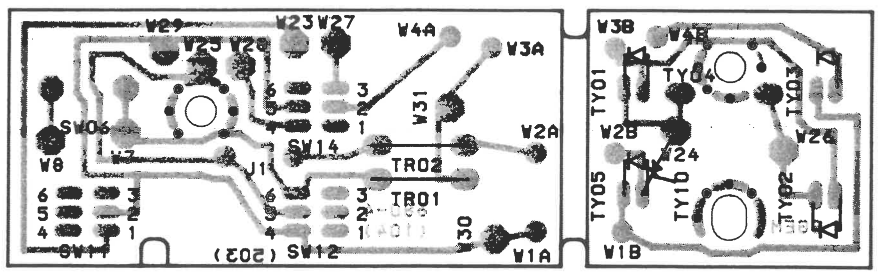


COPPER SIDE

TOP TUNING CIRCUIT BOARD LAYOUT



COMPONENT SIDE



COPPER SIDE

TOP TUNING CIRCUIT BOARD
EP93X630

RESISTOR

REF. NO.	PART NO.	DESCRIPTION
TR03	EP14X385	750 ohm, 5%, 1/4W, Carbon

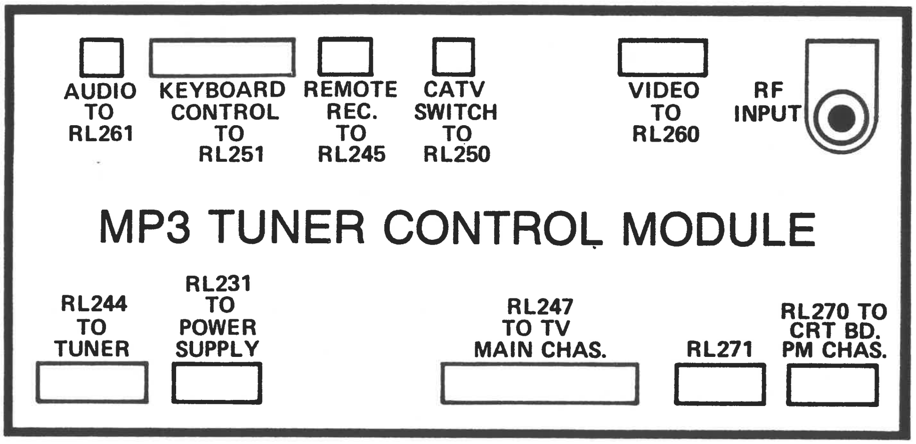
DIODES

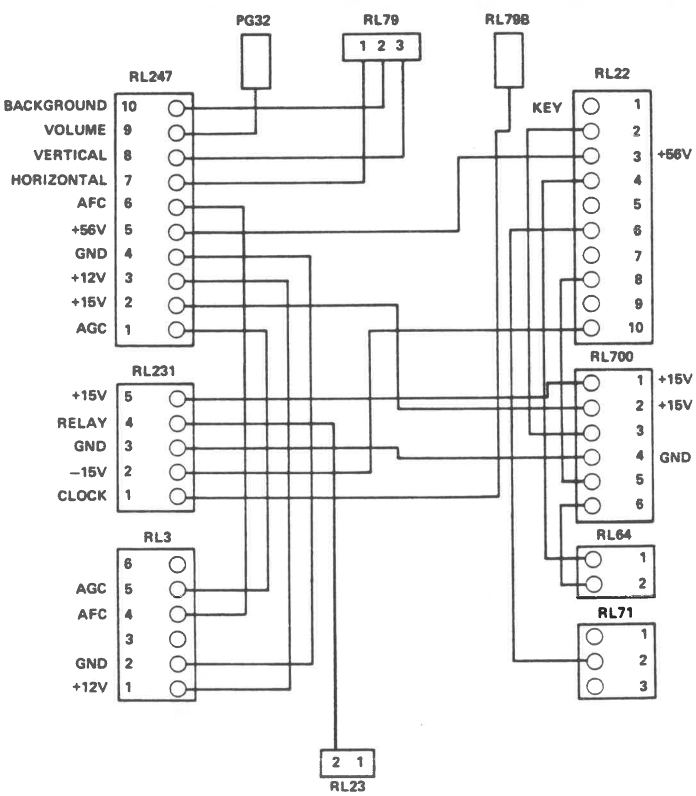
REF. NO.	PART NO.	DESCRIPTION
TY01	EP41X14	L.E.D.-VIR
TY02	EP41X14	L.E.D.-Bilingual, Red
TY03	EP41X14	L.E.D.-Stereo, Red

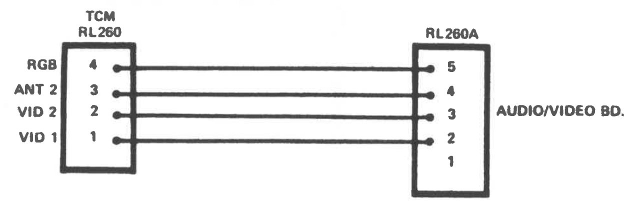
MISCELLANEOUS

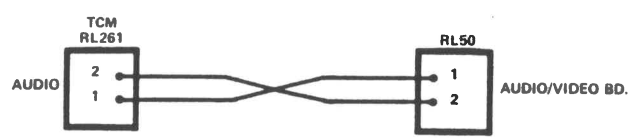
REF. NO.	PART NO.	DESCRIPTION
RL12	EP8X30	CONNECTOR-1 Pin
RL17	EP8X90	CONNECTOR-5 Pos.
	EP3X55	SPACER-L.E.D.
SW01	EP39X150	SWITCH-ON/Off
SW02	EP39X150	SWITCH-Vol Up
SW03	EP39X150	SWITCH-Vol Down
SW04	EP39X150	SWITCH-Channel Up
SW05	EP39X150	SWITCH-Channel Down
SW06	EP39X207	SWITCH-VIR
SW08	EP39X207	SWITCH-Loudness
SW09	EP39X150	SWITCH-Display Screen/Clear
SW11	EP39X150	SWITCH-TV/Video

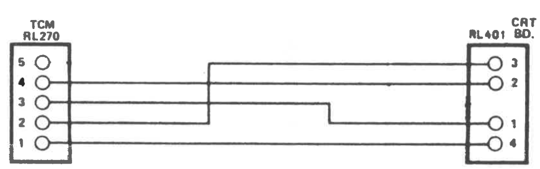
MP3 TCM PLUG LOCATIONS AND CHASSIS INTERFACE HARNESSES

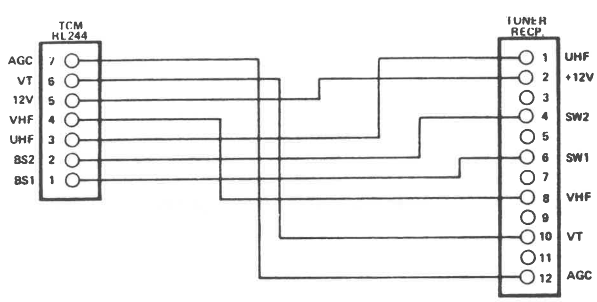












MP3-130
ELECTRONIC TUNING SYSTEM

TROUBLESHOOTING SECTION

INDEX TO ELECTRONIC TUNING SYSTEM TROUBLESHOOTING CHARTS

USE THE CHART FOR THE SYMPTOM THAT MOST CLOSELY APPROXIMATES THE CONDITION OF THE RECEIVER UNDER REPAIR.

SYMPTOM	CHART
● POWER SUPPLIES	I
● TROUBLESHOOTING ORDER	II
● CATEGORIZED SYMPTOMS	III
KEYBOARD INOPERATIVE/HAS RASTER	1.
NO REMOTE CONTROL/KEYBOARD OK	2.
DARK RASTER/CHANNEL DISPLAY OK	3.
SNOWY RASTER	4.
NO CHANNEL/NO KEYBOARD/NO REMOTE	5.
NO LAST OR FAVORITE CHANNEL MEMORY	6.
CHANNEL DISPLAY OK/CHANNELS OFF FREQUENCY	7.
NO PICTURE/CHANNEL DISPLAY INCORRECT	8.
PICTURE OK/CHANNEL DISPLAY INCORRECT	9.
NO PICTURE/CHANNEL DISPLAY OK	10.
UHF/VHF TUNER CHECK	

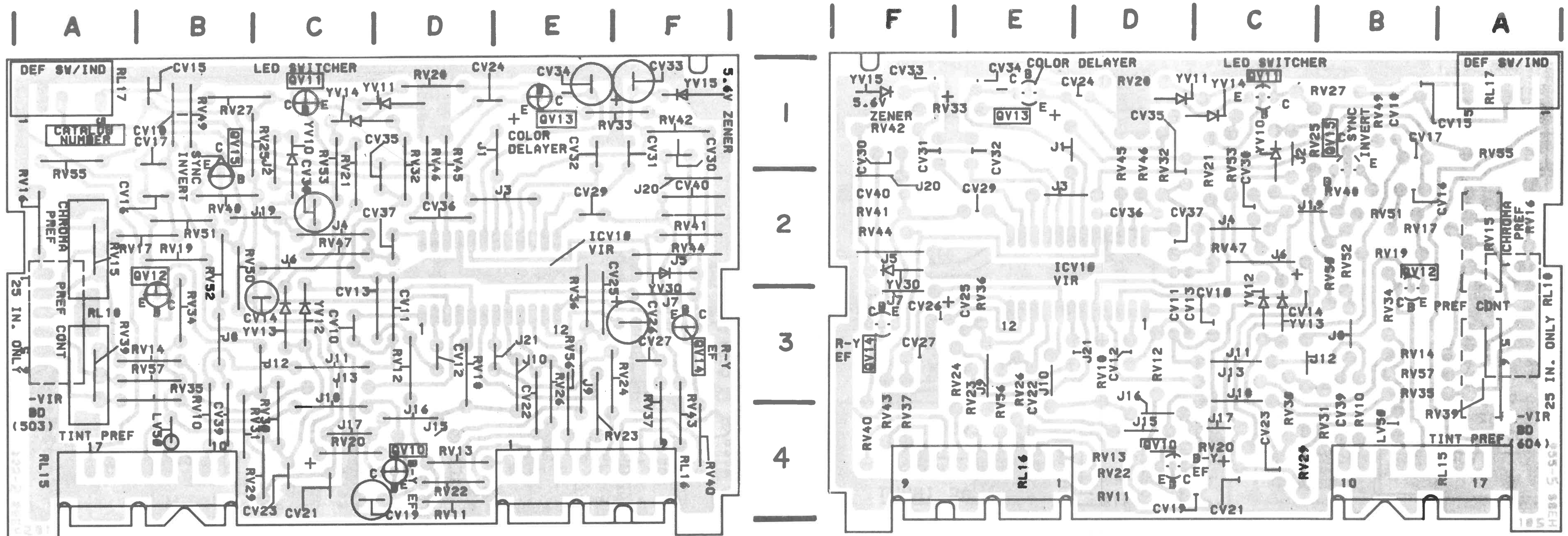
TECHNICIAN NOTES

UHF/VHF TUNER BANDSWITCHING VOLTAGES AND CABLE FREQUENCIES CHART

RECEIVING BAND	BAND I	BAND II	BAND III	BAND IV
	LO-VHF (CHANNEL 2-6) CABLE 64-68	HI-VHF (CHANNEL 7-13) & CABLE MIDBAND A-2, A-1, (A - I) CH. 60, 61, (14 - 22)	CABLE SUPERBAND CH. 23 - 36 (J - W) CABLE HYPERBAND CH. 37 - 59	UHF (CHANNEL 14 - 83)
SW1 +/-10%	-15V	-15V	+9V	-15V
SW2 +/-10%	-15V	+9V	+9V	+9V
VHF RF & OSC B+ +/-10%	+12V	+12V	+12V	0V
MIXER B+ +/-10%	+12V	+12V	+12V	+12V
UHF B+ +/-10%	0V	0V	0V	+12V
AGC @ MAX GAIN	0.0V	0.0V	0.0V	0.0V
TUNING VOLTAGE	0-30	0-30	0-30	0-30

130 CABLE CHANNEL CHART						
FREQ SPECTRUM	54MHz TO 88MHz	108MHz TO 174MHz	174MHz TO 216MHz	216MHz TO 300MHz	300MHz TO 438MHz	470MHz TO 890MHz
CHANNEL BAND	LO VHF 2-6	MID BAND CABLE (A-2)—I	HI VHF 7-13	SUPER BAND CABLE J-W	HYPERBAND CABLE AA-WW	UHF 14-83
TV CHANNEL NUMBER INDICATOR	2-6	60 (A-2) 61 (A-1) 14-22 (A-I)	7-13	23-36	37-59	14-83

VIR CIRCUIT BOARD LAYOUT (PM-D CHASSIS)



COMPONENT SIDE *COPPER SIDE*

CAPACITORS
CV10—B1
CV11—D3
CV12—D3
CV13—D2
CV14—C3
CV15—B1
CV16—A2
CV17—B1
CV19—D4
CV21—C4
CV22—E3
CV23—C4
CV24—D1
CV25—E2
CV26—F3
CV27—F3
CV29—E2
CV38—C2
CV30—F1
CV31—F1
CV32—E1
CV33—F1
CV34—E1
CV35—D1
CV36—D2
CV37—D2
CV39—B3
CV40—F2

RESISTORS	
RV10—B3	RV48—B2
RV11—D4	RV41—F2
RV12—D3	RV42—F1
RV13—D4	RV43—F3
RV14—B3	RV44—F2
RV15—A2	RV45—D1
RV16—A2	RV46—D1
RV17—B2	RV47—C2
RV19—B2	RV49—B1
RV28—D1	RV50—B2
RV20—C4	RV51—B2
RV22—D4	RV52—B2
RV23—E4	RV53—C1
RV24—F3	RV55—A1
RV25—C1	RV56—E3
RV26—E3	RV57—B3
RV27—B1	
RV29—C4	
RV30—C3	
RV31—B3	
RV32—D1	
RV33—E1	
RV34—B3	
RV35—B3	
RV36—E2	
RV37—F3	
RV39—A3	
RV40—F4	

DIODES
YV10—C1
YV11—D1
YV12—C3
YV13—C3
YV14—C1
YV15—F1
YV30—F2

TRANSISTORS
QV10—D4
QV11—C1
QV12—B2
QV13—E1
QV14—F3
QV15—B1

RECEPTACLES
RL10—A3
RL15—A4
RL16—F4
RL17—A1

INTEGRATED CIRCUIT
ICV10—E2

COIL
LV50—B4

VIR CIRCUIT BOARD
EP93X462 (19")
EP93X553 (26")

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
CV10	EP25X87	.047µf, 20%, 50V, Polyester
CV11	EP18X204	470pf, 10%, 50V, SHiK, Cer. Disc
CV12	EP25X87	.047µf, 20%, 50V, Polyester
CV13	EP18X198	2200pf, 30%, 25V, SHiK, Cer. Disc
CV14	EP31X149	10µf, 20%, 35V, Elect.
CV15	EP25X87	.047µf, 20%, 50V, Polyester
CV16	EP25X87	.047µf, 20%, 50V, Polyester
CV17	EP25X87	.047µf, 20%, 50V, Polyester
CV18	EP18X204	470pf, 10%, 50V, SHiK, Cer. Disc
CV19	EP18X159	100pf, 10%, 50V, SHiK, Cer. Disc
CV21	EP31X169	100µf, 20%, 50V, Elect.
CV22	EP18X197	1000pf, 20%, 50V, SHiK, Cer. Disc
CV23	EP25X87	.047µf, 20%, 50V, Polyester
CV24	EP31X188	220µf, 20%, 16V, Elect.
CV25	EP18X169	.01µf, 30%, 25V, SHiK, Cer. Disc
CV26	EP31X45	47µf, 20%, 35V, Elect.
CV27	EP25X87	.047µf, 20%, 50V, Polyester
CV29	EP25X87	.047µf, 20%, 50V, Polyester
CV30	EP18X159	100pf, 10%, 50V, SHiK, Cer. Disc
CV31	EP25X87	.047µf, 20%, 50V, Polyester
CV32	EP25X87	.047µf, 20%, 50V, Polyester
CV33	EP31X162	100µf, 20%, 16V, Elect.
CV34	EP31X45	47µf, 20%, 35V, Elect.
CV35	EP25X87	.047µf, 20%, 50V, Polyester
CV36	EP18X271	1200pf, 10%, 50V, SHiK, Cer. Disc
CV37	EP25X87	.047µf, 20%, 50V, Polyester
CV38	EP18X159	100pf, 10%, 50V, SHiK, Cer. Disc
CV39	EP18X169	.01µf, 30%, 25V, SHiK, Cer. Disc
CV40	EP18X204	470pf, 10%, 50V, SHiK, Cer. Disc
CV45	EP31X166	1µf, 20%, 50V, Elect.
CV51	EP18X214	.022µf, 20%, 50V, HiK, Cer. Disc

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
	EP14X131	47K ohm, 5%, 1/4W, Carbon
RV10	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
RV11	EP14X361	1.8K ohm, 5%, 1/4W, Carbon
RV12	EP14X243	2.2K ohm, 5%, 1/4W, Carbon
RV13	ES14X71	1K ohm, 5%, 1/4W, Carbon
RV14	EP14X437	3.9K ohm, 5%, 1/4W, Carbon
RV16	ES14X71	1K ohm, 5%, 1/4W, Carbon
RV17	ES14X71	1K ohm, 5%, 1/4W, Carbon
RV18	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
RV19	EP14X400	2.7K ohm, 5%, 1/4W, Carbon
RV20	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
RV21	EP14X131	47K ohm, 5%, 1/4W, Carbon
RV22	EP14X131	47K ohm, 5%, 1/4W, Carbon
RV23	ES14X71	1K ohm, 5%, 1/4W, Carbon
RV24	EP14X243	2.2K ohm, 5%, 1/4W, Carbon
RV25	ES14X71	1K ohm, 5%, 1/4W, Carbon
RV26	EP14X131	47K ohm, 5%, 1/4W, Carbon
RV27	EP14X318	220 ohm, 5%, 1/4W, Carbon
RV28	EP14X131	47K ohm, 5%, 1/4W, Carbon
RV29	EP14X103	10K ohm, 5%, 1/4W, Carbon
RV30	EP14X414	18K ohm, 5%, 1/4W, Carbon
RV31	EP14X103	10K ohm, 5%, 1/4W, Carbon
RV32	EP14X140	330K ohm, 5%, 1/4W, Carbon
RV33	EP14X438	750K ohm, 5%, 1/4W, Carbon
RV34	EP14X424	8.2K ohm, 5%, 1/4W, Carbon
RV35	EP14X436	3.6K ohm, 5%, 1/4W, Carbon
RV36	EP14X370	9.1K ohm, 5%, 1/4W, Carbon
RV37	ES14X71	1K ohm, 5%, 1/4W, Carbon
RV41	EP14X424	8.2K ohm, 5%, 1/4W, Carbon
RV42	EP14X289	430 ohm, 5%, 1/4W, Carbon
RV43	ES14X70	100 ohm, 5%, 1/4W, Carbon
RV44	EP14X379	5.6K ohm, 5%, 1/4W, Carbon
RV45	EP14X398	15K ohm, 5%, 1/4W, Carbon
RV46	EP14X437	3.9K ohm, 5%, 1/4W, Carbon
RV47	EP14X103	10K ohm, 5%, 1/4W, Carbon
RV48	ES14X58	470 ohm, 5%, 1/4W, Carbon
RV49	ES14X71	1K ohm, 5%, 1/4W, Carbon
RV50	EP14X424	8.2K ohm, 5%, 1/4W, Carbon
RV51	EP14X419	30K ohm, 5%, 1/4W, Carbon
RV52	EP14X136	33K ohm, 5%, 1/4W, Carbon
RV53	EP14X409	10 ohm, 5%, 1/4W, Carbon
RV55	ES14X71	1K ohm, 5%, 1/4W, Carbon
RV56	ES14X71	1K ohm, 5%, 1/4W, Carbon
RV57	ES14X64	2K ohm, 5%, 1/4W, Carbon

POTENTIOMETERS

REF. NO.	PART NO.	DESCRIPTION
RV15	EP49X472	5K ohm, 20%
RV39	EP49X472	5K ohm, 20%

INTEGRATED CIRCUIT

REF. NO.	PART NO.	DESCRIPTION
IC10	EP84X60	MONO, SILICON

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
QV10	EP15X88	Silicon, NPN
QV11	EP15X88	Silicon, NPN
QV12	EP15X88	Silicon, NPN
QV13	EP15X88	Silicon, NPN
QV14	EP15X88	Silicon, NPN
QV15	EP15X48	Silicon, PNP

DIODES

REF. NO.	PART NO.	DESCRIPTION
YV10	EU16X11	Silicon
YV11	EU16X11	Silicon
YV12	EU16X11	Silicon
YV13	EU16X11	Silicon
YV14	EU16X11	Silicon
YV15	EP16X19	Zener, 5.6V, 1W
YV16	EP16X58	Zener

COIL

REF. NO.	PART NO.	DESCRIPTION
LV50	EP36X33	CHOKE-56µh, 5%

PM CHASSIS BLOCK DIAGRAMS

BASIC PM CHASSIS BLOCK DIAGRAM

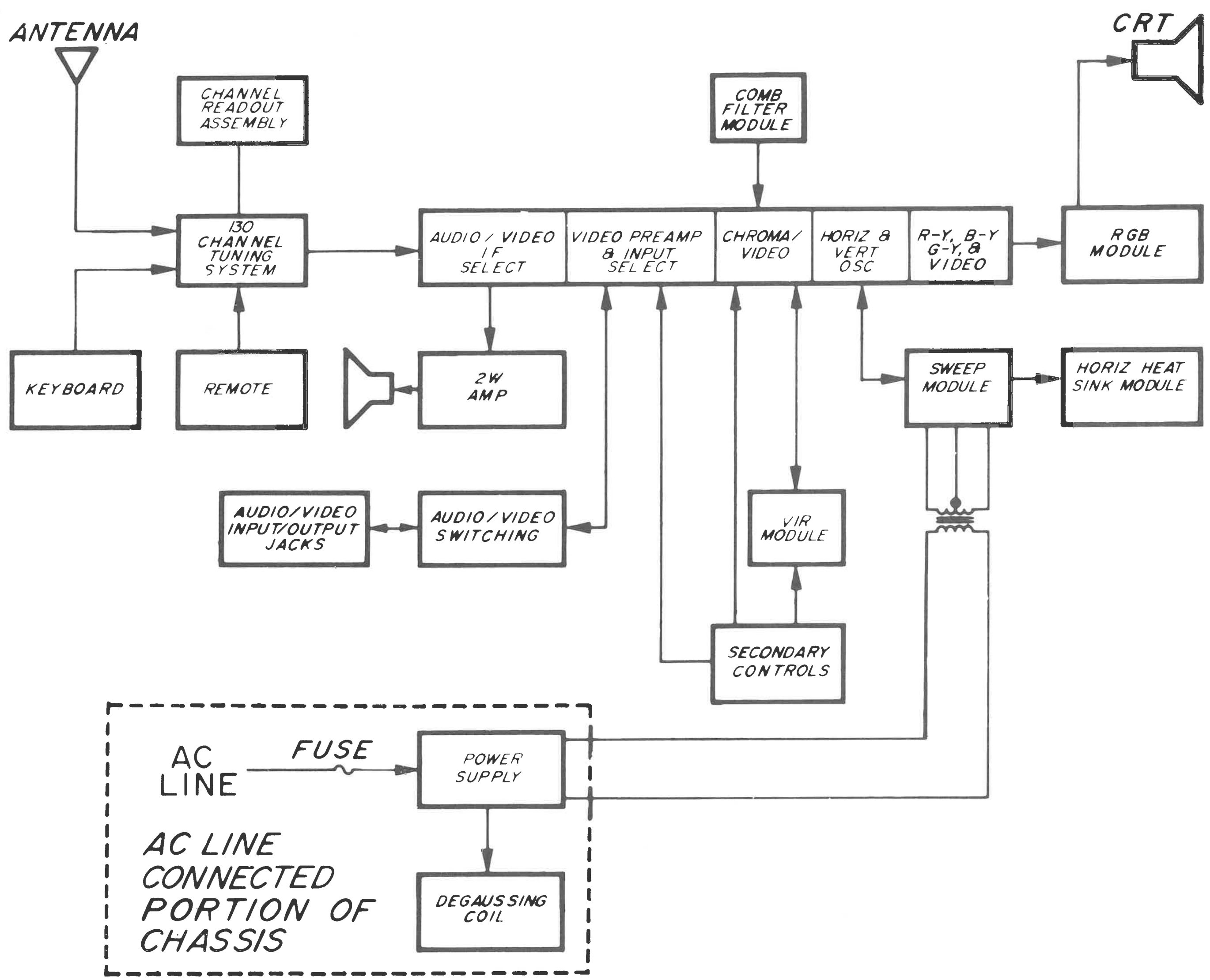


FIGURE 12 — BLOCK DIAGRAM OF BASIC PM CHASSIS. This configuration represents circuitry found in both 19 and 25 inch low end models.

FULL-FEATURED PM CHASSIS BLOCK DIAGRAM

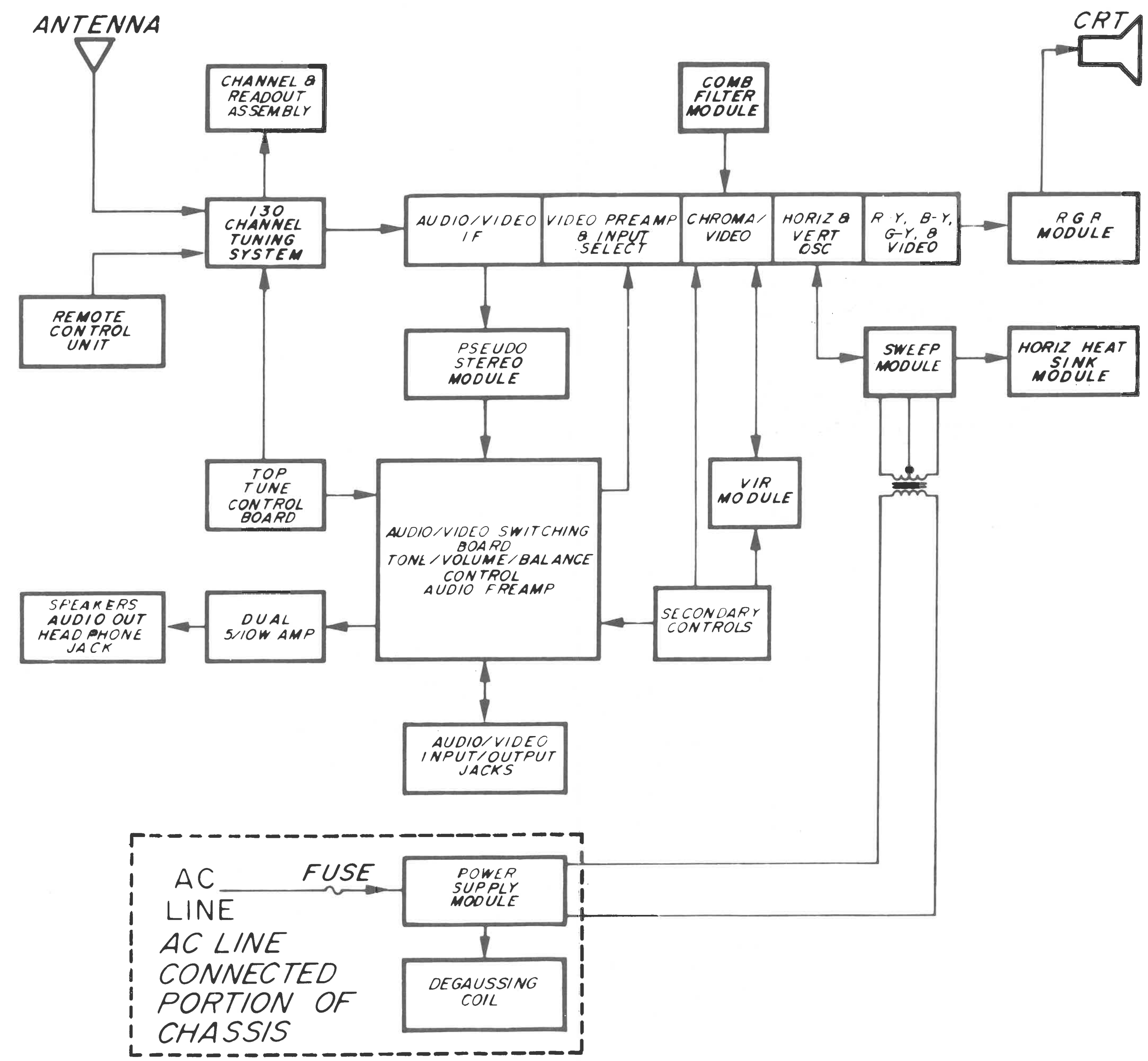
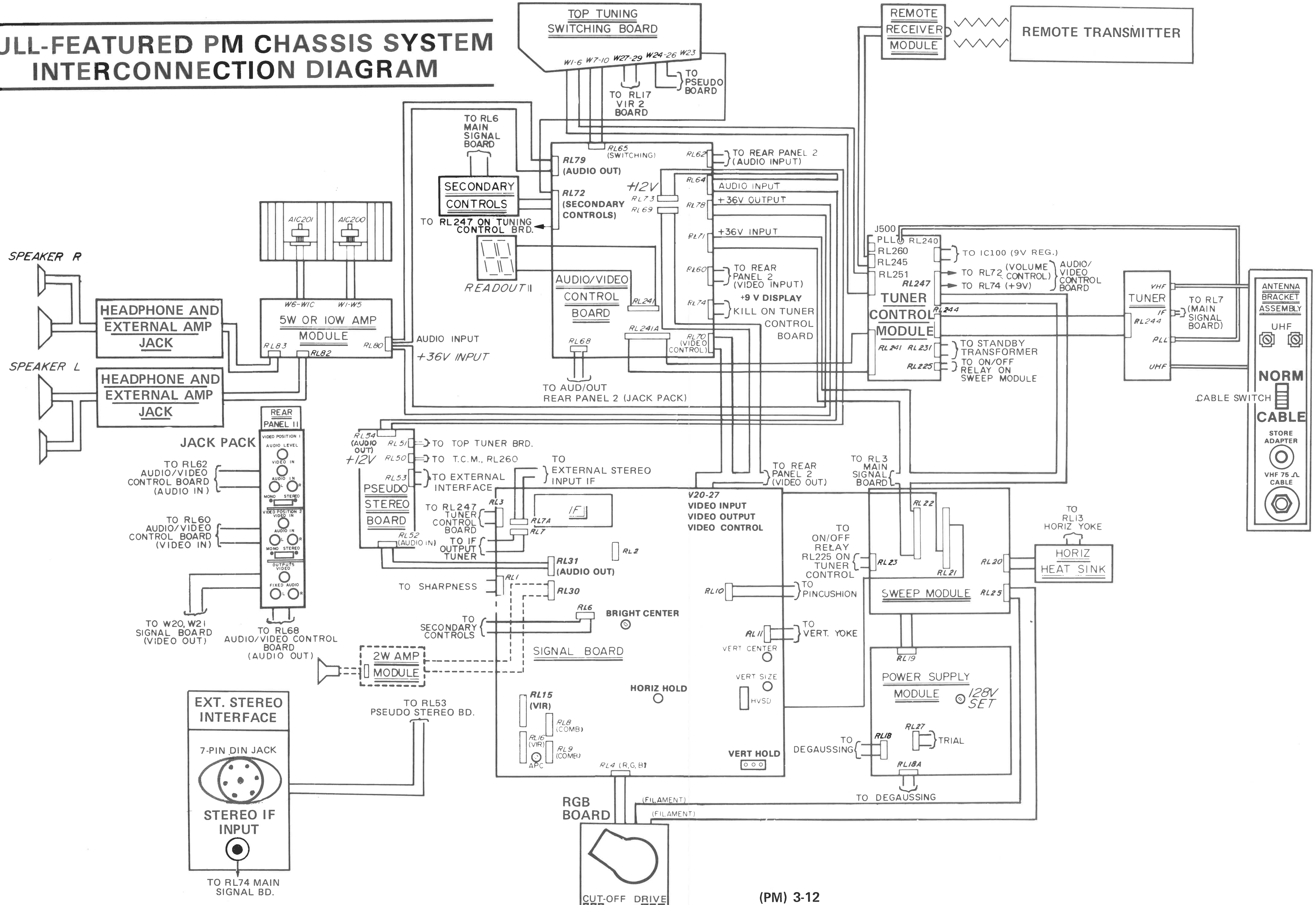
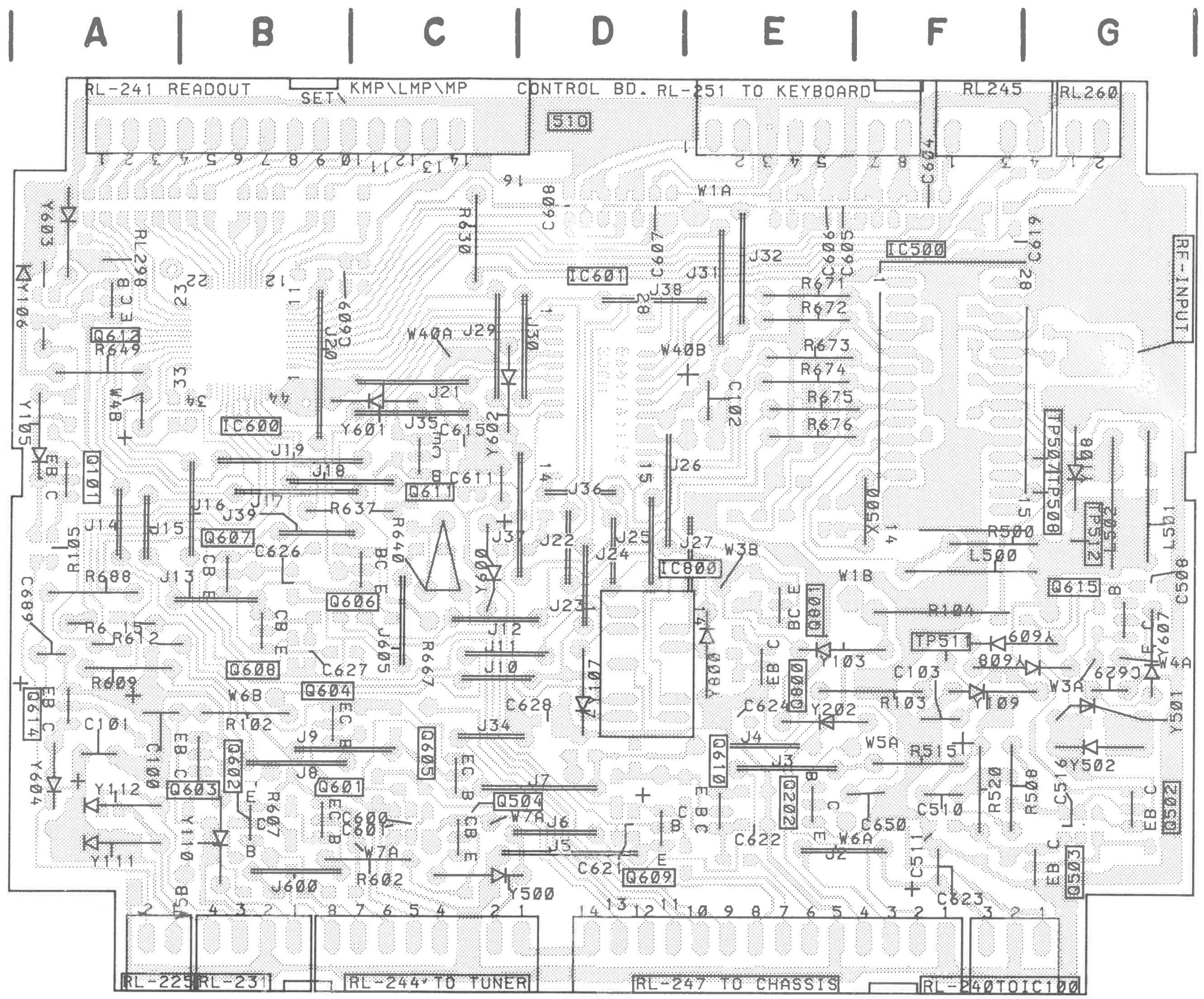


FIGURE 13 — BLOCK DIAGRAM FULL—FEATURED PM CHASSIS. Stepped-up 19 and 25 inch PM models offer additional circuitry for dual audio output amplifier (5 or 10 watt), Sound Plus (simulated stereo), and enhanced audio/video input switching.

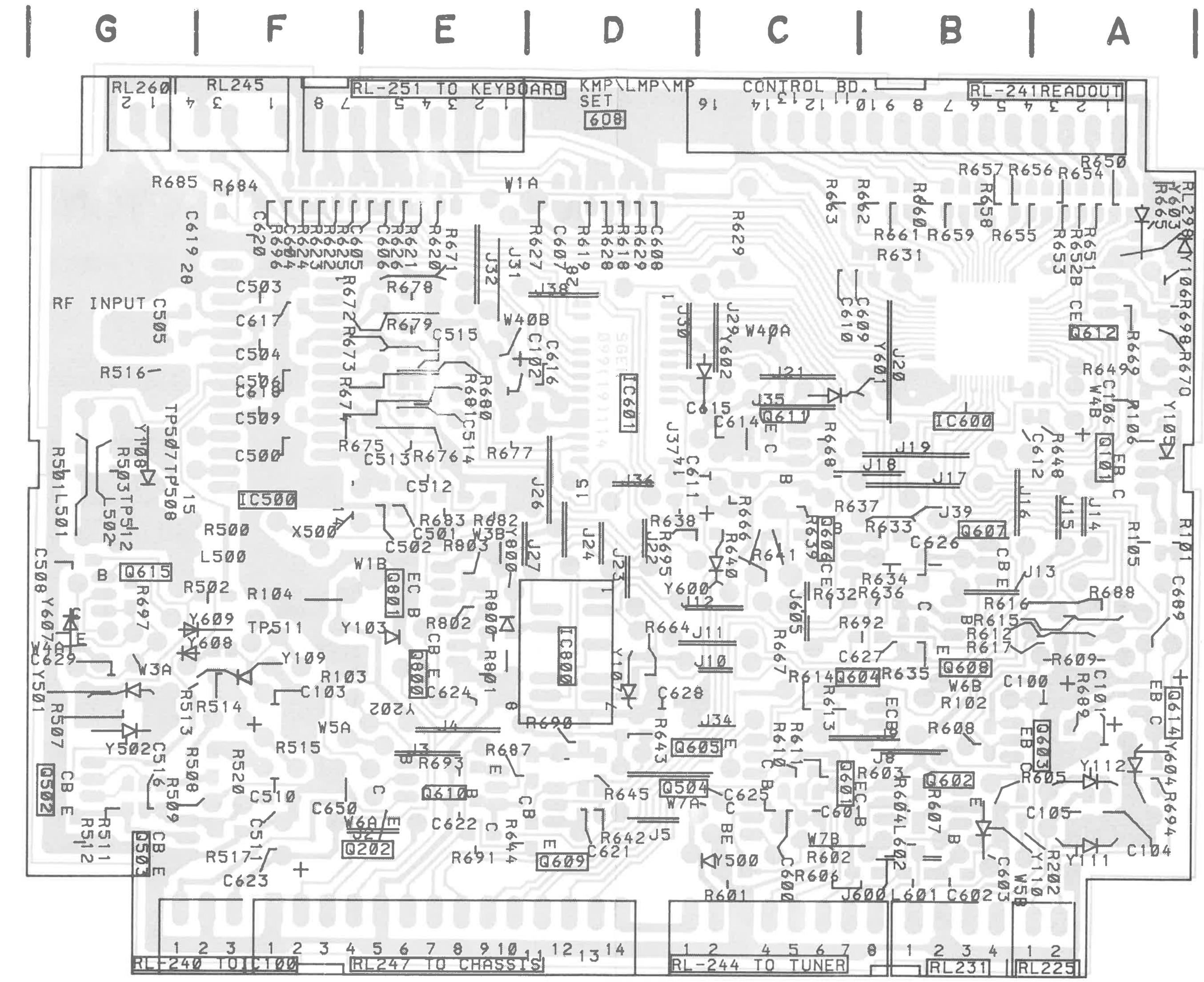
FULL-FEATURED PM CHASSIS SYSTEM INTERCONNECTION DIAGRAM



SET/KMPS/LMP/MP-130 ELECTRONIC TUNER CONTROL CIRCUIT BOARD LAYOUT



COMPONENT SIDE



COPPER (AND "CHIP" COMPONENTS) SIDE

RESISTORS
R102-B4
R103-F4
R104-F3
R105-A3
R315-F4
R500-F3
R508-G4
R520-F4
R602-C5
R607-B5
R609-A4
R612-A4
R615-A4
R630-C1
R637-B3
R640-C3
R649-A2
R667-C4
R671-E2
R672-E2
R673-E2
R674-E2
R675-E2
R676-E2
R688-A3

CAPACITORS
C100-A4
C101-A4
C102-E2
C103-F4
C508-G3
C510-F4
C511-F5
C516-G4
C689-A3
C600-C5
C601-C5
C604-F1
C605-E1
C606-E1
C607-D1
C608-D1
C609-B2
C611-C3
C615-C2
C619-G1
C621-D5
C622-E5
C623-F5
C626-G3
C627-B4
C628-D4
C629-G4
C650-F5

DIODES
Y103-E4
Y105-A2
Y106-A2
Y107-D4
Y108-G3
Y109-F4
Y110-B5
Y111-A5
Y112-A4
Y202-E4
Y500-C5
Y501-G4
Y502-G4
Y600-C3
Y601-C2
Y602-C2
Y603-A1
Y604-A4
Y607-G3
Y608-F4
Y609-G4
Y800-E4

TRANSISTORS
A101-A3
Q202-E5
Q502-G4
Q503-G5
Q601-B4
Q602-B4
Q603-B4
Q604-B4
Q605-C4
Q606-B3
Q607-B3
Q608-B4
Q609-D5
Q610-E4
Q611-C3
Q612-A2
Q614-A4
Q615-G3
Q800-E4
Q801-E3

CRYSTAL
X500-F3

COILS
L500-F3
L501-G3
L502-G3

INTERGRATED CIRCUITS
IC500-F1
IC600-B2
IC601-D2
IC800-D3

RECEPTACLES
RL225-A5
RL231-B5
RL240-F5
RL241-A1
RL244-C5
RL245-F1
RL247-D5
RL251-D1
RL260-G1
RL298-A1

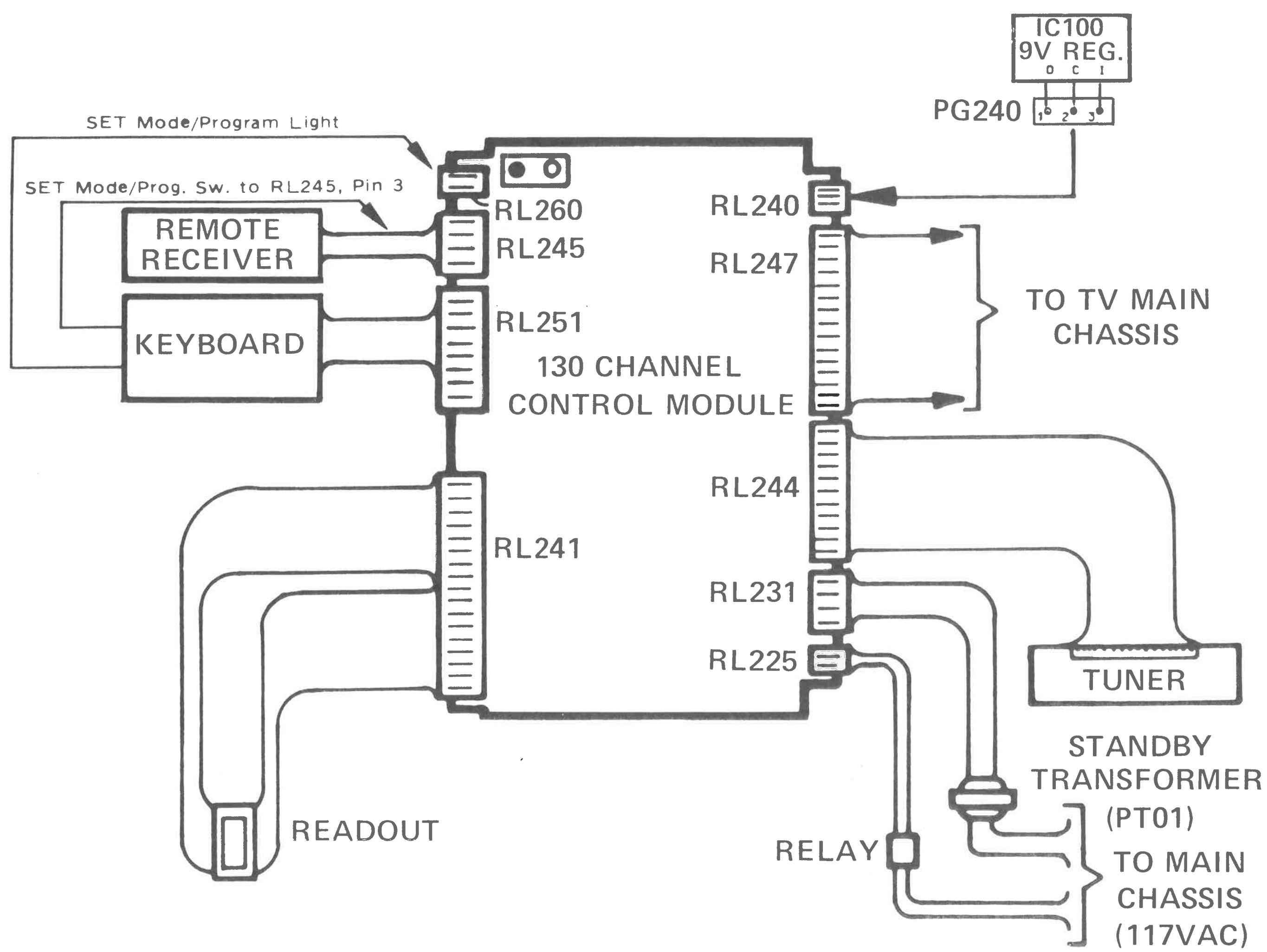
TEST POINTS
TP507-G2
TP508-G3
TP511-F4
TP512-G3

JUMPERS
J2-E5
J3-E4
J3-C3
J4-E4
J5-D5
J6-D5
J7-D4
J8-B4
J9-B4
J10-C4
J11-C4
J13-B3
J14-A3
J15-A3
J16-B3
J17-B3
J18-B3
J19-B3
J20-B2
J21-C2
J22-D3
J23-D3
J24-D3
J25-D3
J26-D3
J28-D2
J29-C2
J30-D2
J31-E2
J32-E1
J34-C4
J35-C2
J36-D3
J38-D2
J39-B3
J600-B5
J605-C4

SET/KMPS/LMP/MP-130 TUNER CONTROL MODULE

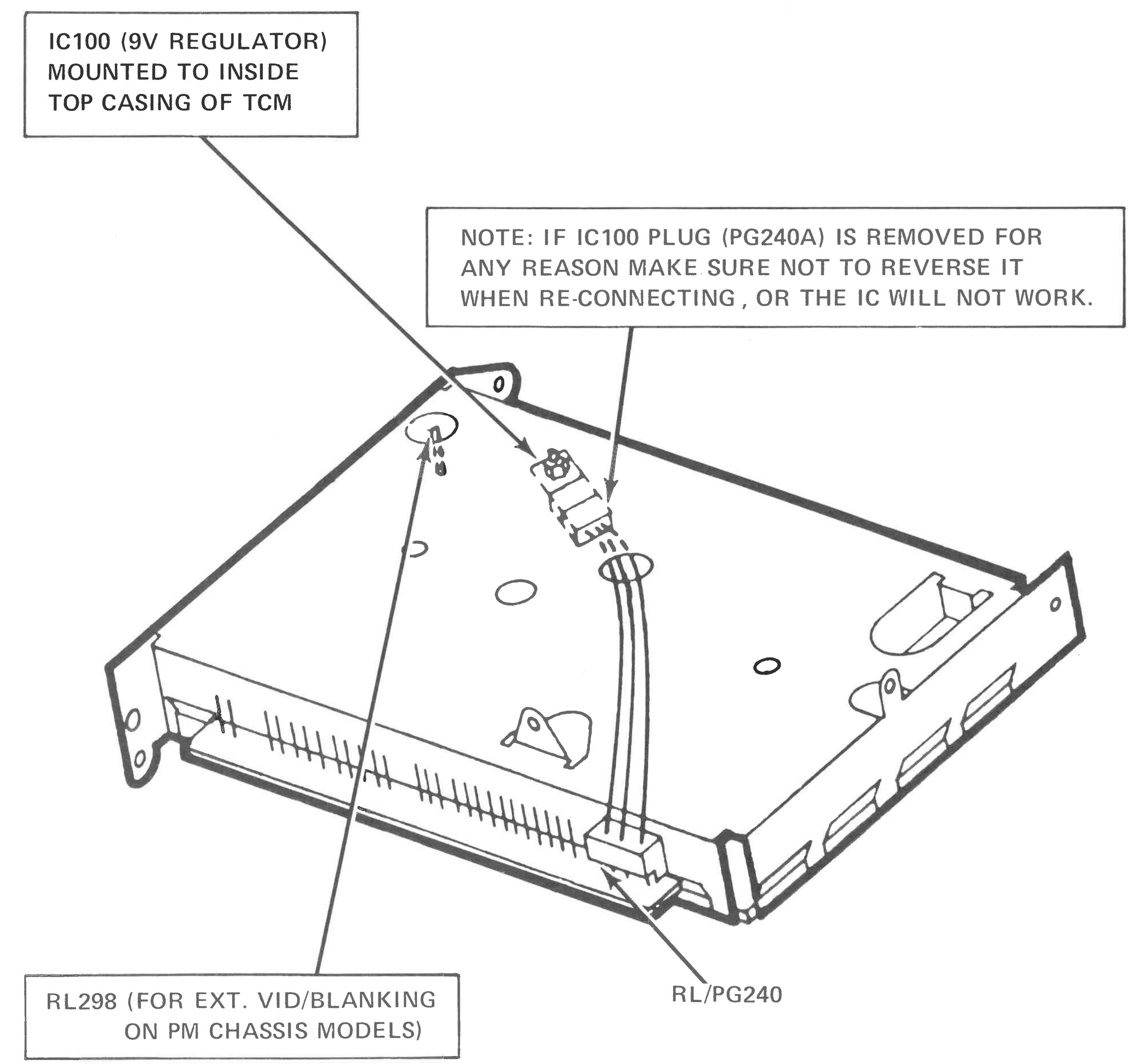
TUNER CONTROL BOARD PLUG LOCATIONS

NOTE: REMOTE FUNCTIONS ARE FOR LMP/MP-130 TUNING MODELS ONLY.



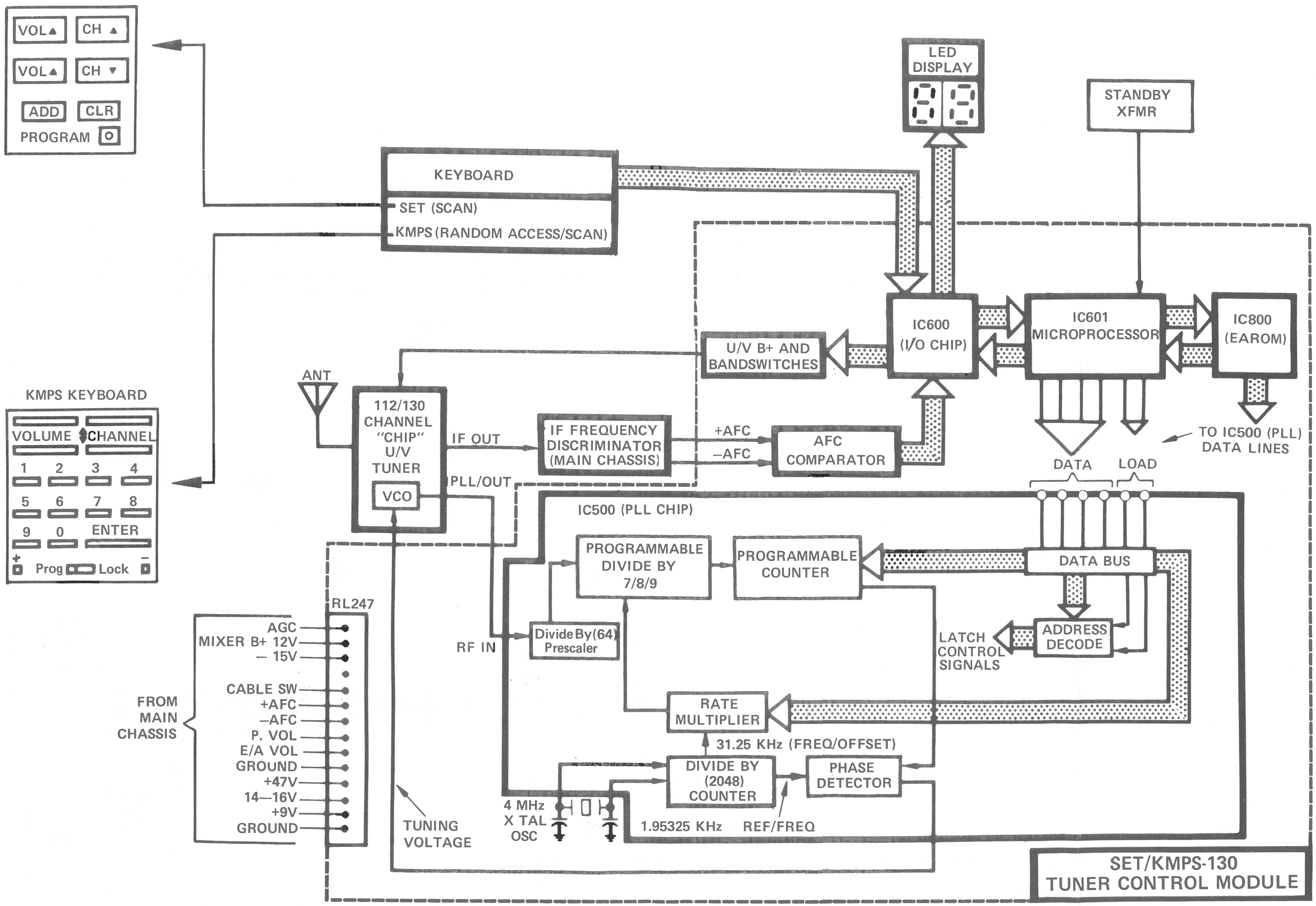
TUNER CONTROL BOARD PLUG LOCATIONS

TUNER CONTROL MODULE WITH IC100 (9V REG)



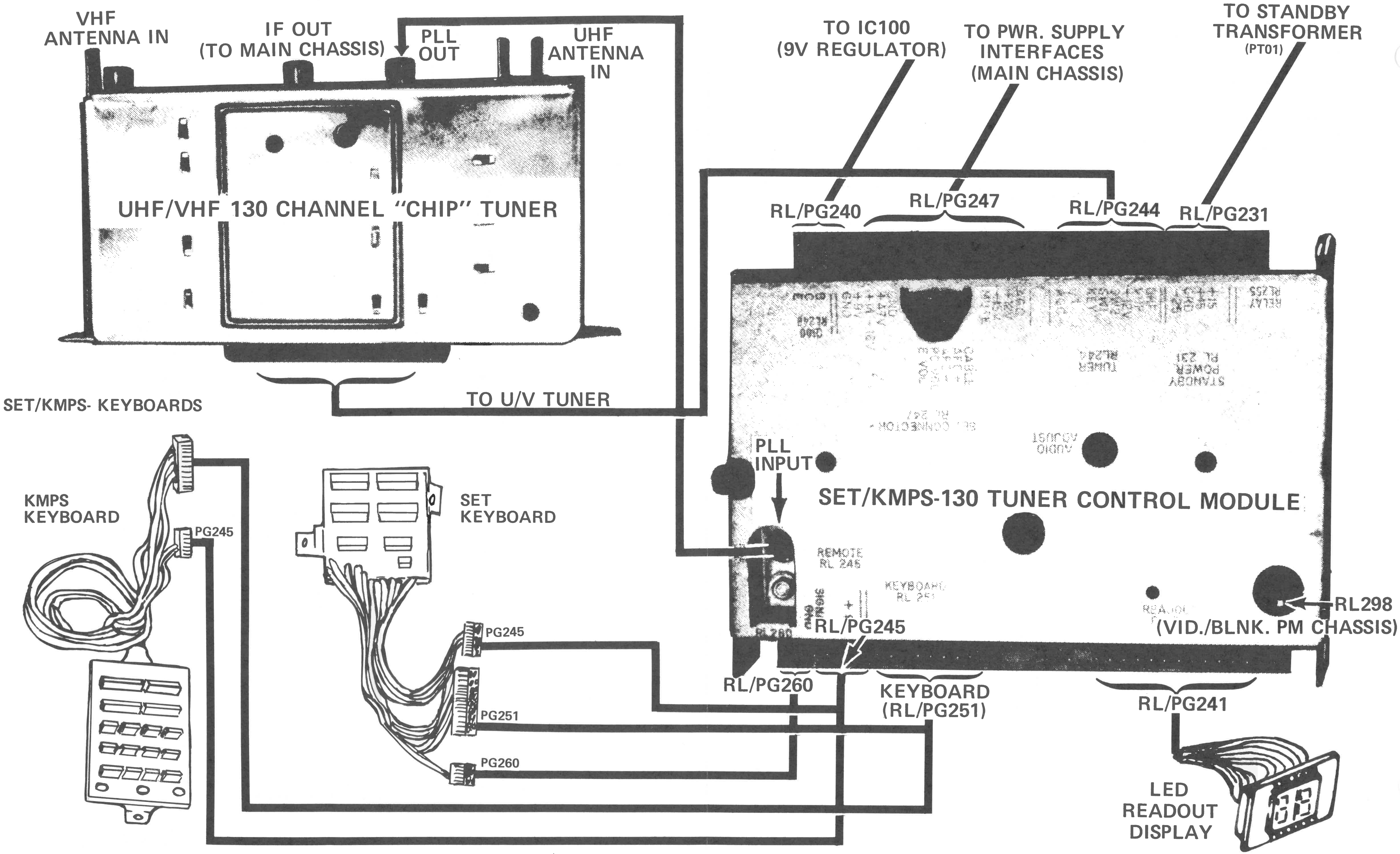
TUNER CONTROL MODULE WITH IC100 (9V REG)

SET/KMPS-130 "NON-REMOTE" TUNING SYSTEM BLOCK DIAGRAM



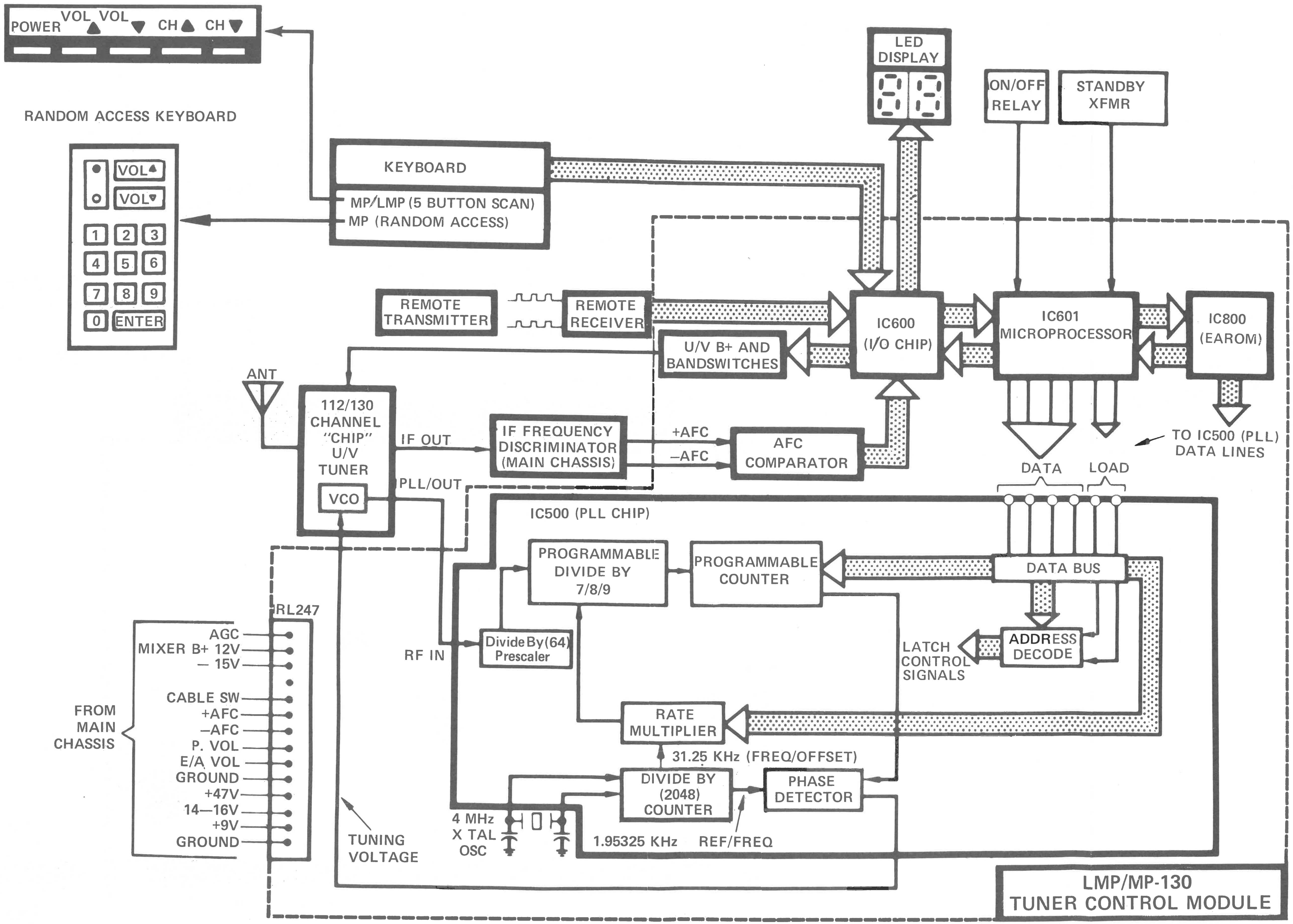
SET/KMPS-130 "NON-REMOTE" TUNING SYSTEM BLOCK DIAGRAM

SET/KMPS-130 "NON-REMOTE" TUNING SYSTEM ASSEMBLIES



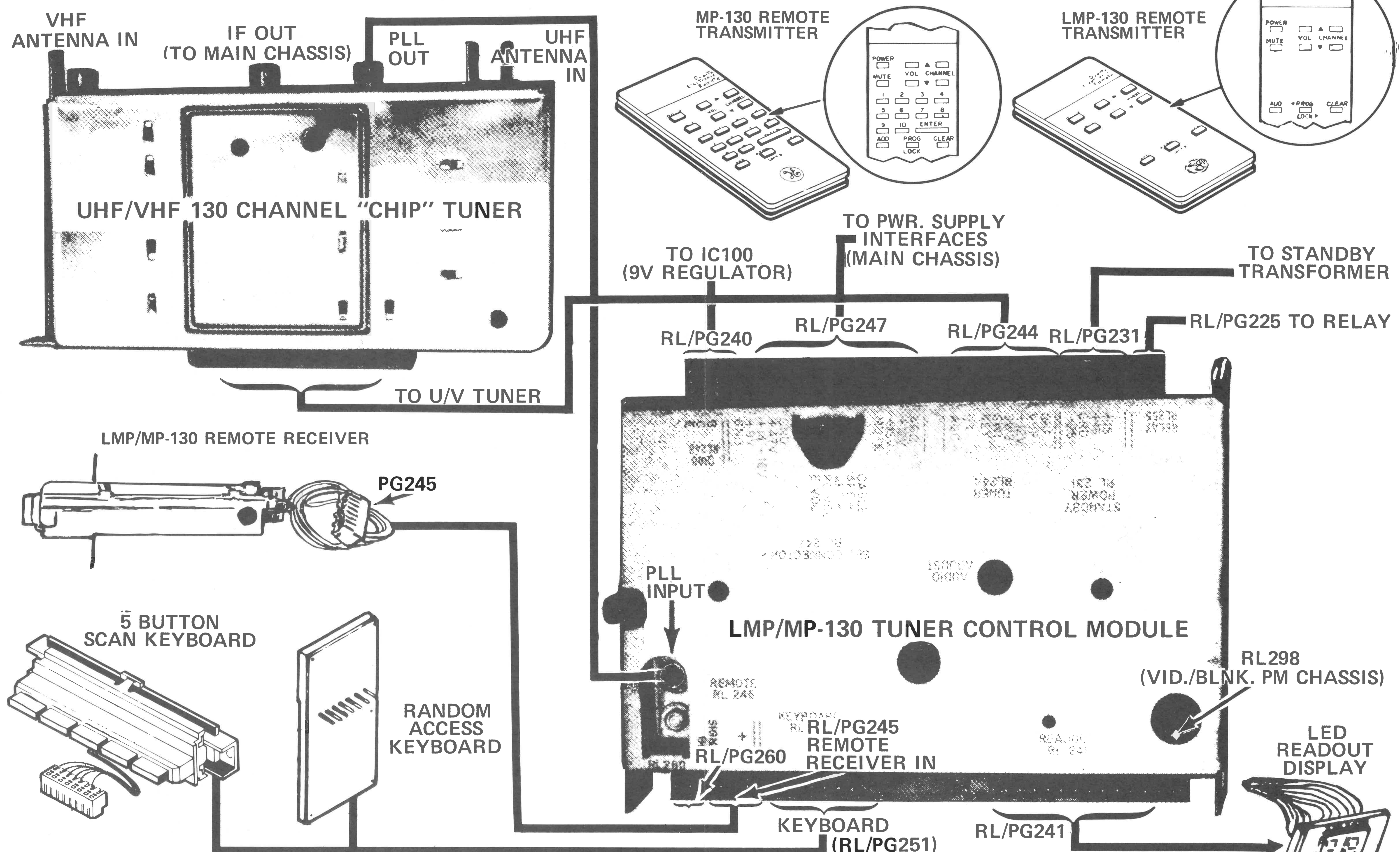
SET/KMPS-130 "NON-REMOTE" TUNING SYSTEM ASSEMBLIES

LMP/MP-130 "REMOTE" TUNING SYSTEM BLOCK DIAGRAM



LMP/MP-130 "REMOTE" TUNING SYSTEM BLOCK DIAGRAM

LMP/MP-130 "REMOTE" TUNING SYSTEM ASSEMBLIES



LMP/MP-130 "REMOTE" TUNING SYSTEM ASSEMBLIES

112/130 CHANNEL ELECTRONIC TUNING SYSTEM TROUBLESHOOTING FLOW CHARTS

General: To help troubleshoot the 112/130 channel electronic tuning systems more efficiently, most frequent symptoms are listed, as well as module functions and troubleshooting information. Follow the flow of information, however, skip sections not applicable to the system under repair.

I. POWER SUPPLIES

NOTE:
RL225 Pin 1, +15 V must be correct before the set will switch on. If supplies are OK, the ON/OFF relay may be forced on by grounding pin 2 of RL/PG235 through a 100 ohm, ½ watt resistor. Replace Q614 if necessary, otherwise inspect TV power supplies.

1. Do not unplug, but do check all voltages at RL/PG247. (Check +15V only if the IC100 9V Regulator is included with the tuner control module).
2. Check RL231, pin 1 for 30 to 38VAC (supply for B minus (—) 27V supply to IC800, EAROM.
3. Check RL225, pin 1 for ON/OFF Relay B+ 13 to 17VDC.
4. Check RL245, pin 1 for Remote Receiver B+ 7.5 to 8.5 VDC.
5. Check for shorted or loose wires and cables. They are frequently the cause of trouble.

II. TROUBLESHOOTING ORDER

In order of probability after checking power supplies, wires, cable switch , Remote Transmitter and Remote Receiver, check:

1. Tuner/Bandswitch transistors
2. Microprocessor (IC601)
3. Keyboard
4. IC600 (I/O) Chip
5. IC800 (EAROM)
6. IC500 (PLL CHIP)

III. CATEGORIZED SYMPTOMS

1. KEYBOARD INOPERATIVE/HAS RASTER

Unplug set for 10 seconds to allow microprocessor to reset.

2. NO REMOTE CONTROL/ KEYBOARD OK
(Note: LMP/MP 5-button keyboard follows favorite/sequential action of transmitter).

Check Transmitter

3. DARK RASTER/CHANNEL DISPLAY OK

Check U/V Tuner

4. SNOWY RASTER

(UHF or VHF only, VHF Hi/Lo or Cable Only).

Check Bandswitch Transistors

5. NO CHANNEL/NO KEYBOARD/NO REMOTE

(With Relay Forced On)

Check Microprocessor (IC601)

6. NO LAST OR FAVORITE CHANNEL MEMORY

(During Power Failure)

Check IC800

7. CHANNEL DISPLAY OK/ CHANNELS OFF FREQUENCY

Check Bandswitch Voltage, if OK, Check IC500 (PLL Chip).

8. NO PICTURE/CHANNEL DISPLAY INCORRECT

If the picture doesn't appear on the screen and the channel display is incorrect, the problem is probably in the keyboard, IC600 or the Microprocessor.

9. PICTURE OK/CHANNEL DISPLAY INCORRECT

If the picture appears on the screen but the display is incorrect the problem is probably in the Microprocessor (IC601), I/O (IC600), or the LED display unit.

10. NO PICTURE/CHANNEL DISPLAY OK

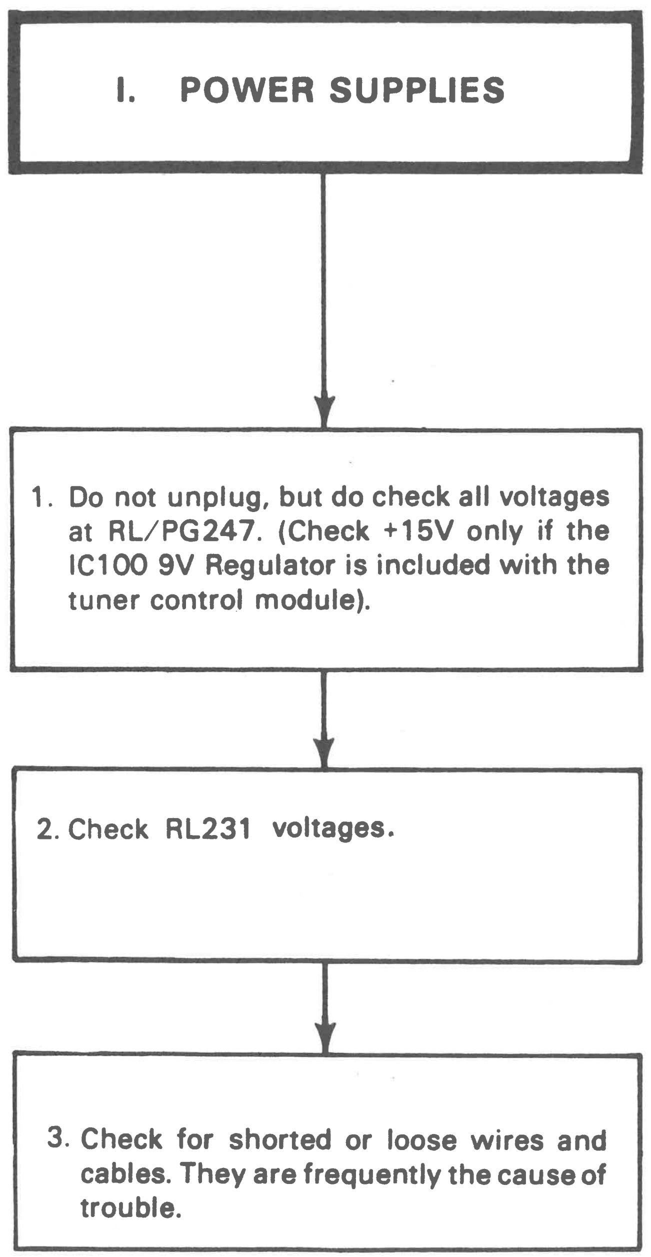
If the display is OK, but the picture doesn't appear on the screen, the trouble could be in the UHF/VHF tuner, Video IF, Standby Supply, Microprocessor of the PLL (IC500), and associated circuitry.

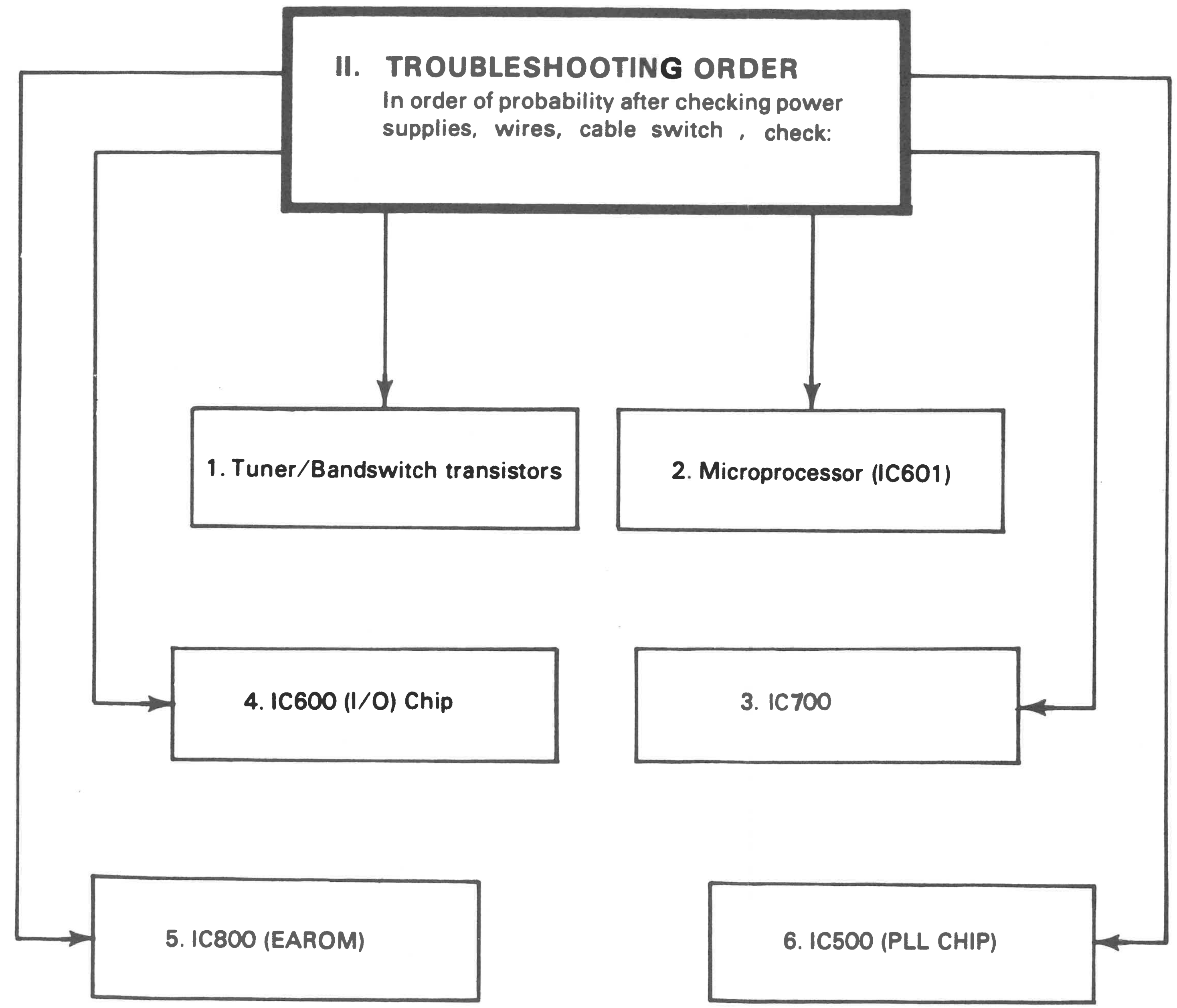
UHF/VHF Tuner Check
Measure tuning voltage at RL244, Pin 2, while entering the following Channels: CH.1=28VDC, 6=20VDC, 13=19VDC, 33=6.5VDC and 82=26VDC. The presence of these voltages indicate that the PLL (IC500) output is working. Enter in Channel 1 (28V at RL244, Pin 2) and connect one end of a potentiometer (10K or more) to the tuning voltage terminal. Connect the center-tap of the pot to chassis ground. Carefully adjust the pot to tune in a station. If a station cannot be tuned in, the UHF/VHF tuner is probably defective.

If a station can be tuned in with the potentiometer, the problem could be the Microprocessor (IC601), or the PLL (IC500).

130 CHANNEL ELECTRONIC TUNING SYSTEM TROUBLESHOOTING FLOW CHARTS

General: To help troubleshoot the MP3-130 channel electronic tuning system more efficiently, most frequent symptoms are listed, as well as module functions and troubleshooting information. Follow the flow of information, however, skip sections not applicable to the system under repair.





III. CATEGORIZED SYMPTOMS

1. KEYBOARD INOPERATIVE/HAS RASTER

Unplug set for 10 seconds to allow microprocessor to reset.

2. DARK RASTER/CHANNEL DISPLAY OK

Check U/V Tuner

3. SNOWY RASTER

(UHF or VHF only, VHF Hi/Lo or Cable Only).

Check Bandswitch Transistors

4. NO CHANNEL/NO KEYBOARD

Check Microprocessor (IC601)

5. NO LAST OR FAVORITE CHANNEL MEMORY

(During Power Failure)

Check IC800

6. CHANNEL DISPLAY OK/ CHANNELS OFF FREQUENCY

Check Bandswitch Voltage, if OK, Check IC500 (PLL Chip).

7. NO PICTURE/CHANNEL DISPLAY INCORRECT

If the picture doesn't appear on the screen and the channel display is incorrect, the problem is probably in the keyboard, IC600 or the Microprocessor.

8. PICTURE OK/CHANNEL DISPLAY INCORRECT

If the picture appears on the screen but the display is incorrect the problem is probably in the Microprocessor (IC601), I/O (IC600), or (IC700) display.

9. NO PICTURE/CHANNEL DISPLAY OK

If the display is OK, but the picture doesn't appear on the screen, the trouble could be in the UHF/VHF tuner, Video IF, Standby Supply, Microprocessor or the PLL (IC500), and associated circuitry.

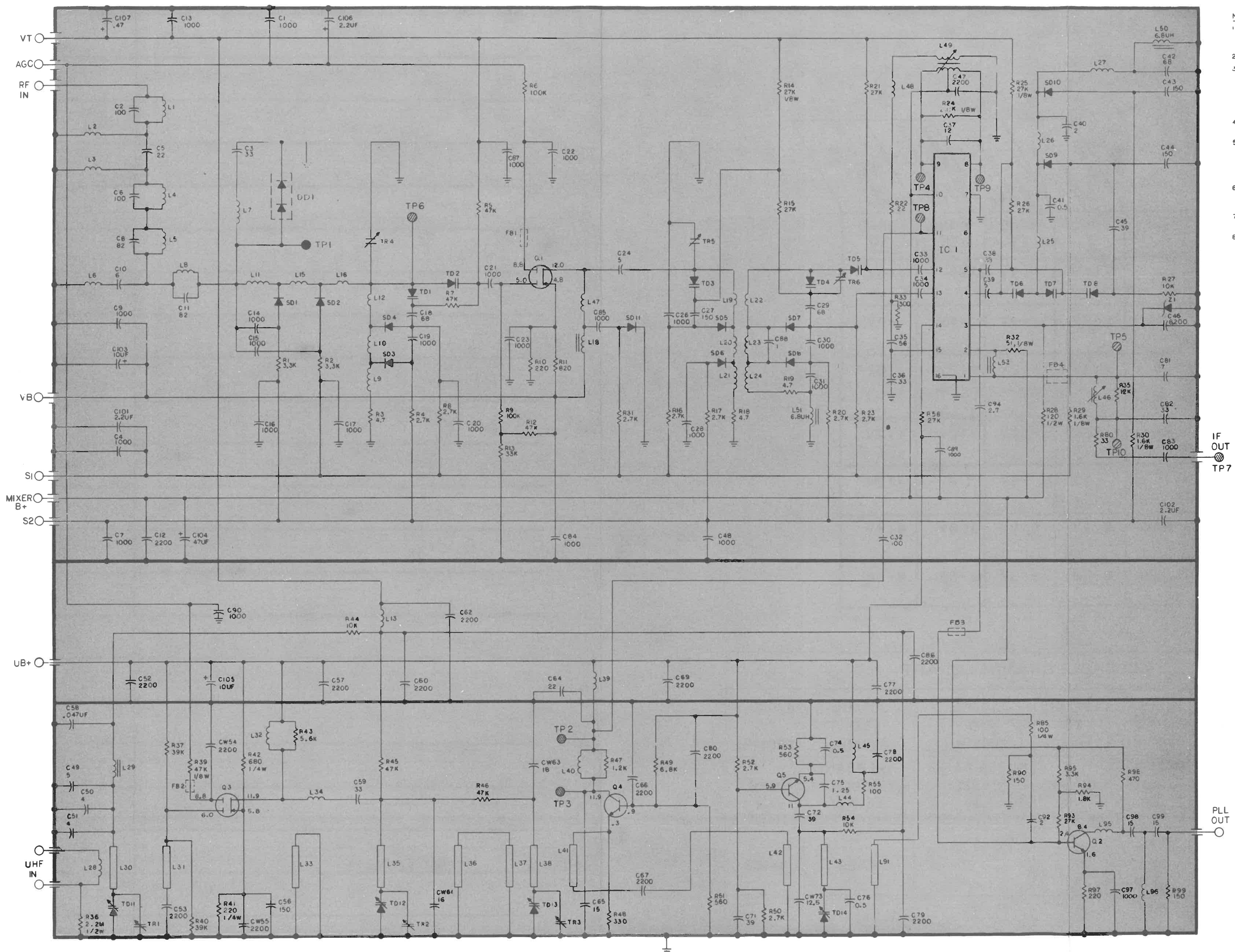
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Measure tuning voltage at RL244, Pin 2, while entering the following Channels: CH.1=28VDC, 6=20VDC, 13=19VDC, 33=6.5VDC and 82=26VDC. The presence of these voltages indicate that the PLL (IC500) output is working. Enter in Channel 1 (28V at RL244, Pin 2) and connect one end of a potentiometer (10K or more) to the tuning voltage terminal. Connect the center-tap of the pot to chassis ground. Carefully adjust the pot to tune in a station. If a station cannot be tuned in, the UHF/VHF tuner is probably defective.

If a station can be tuned in with the potentiometer, the problem could be the Microprocessor (IC601), or the PLL (IC500).

UHF/VHF TUNER (EP93X574)

IMPORTANT SAFETY NOTICE

Product safety should be considered when component replacement is made in any area of a receiver. The (★) beside a part in the parts list and the shaded areas of the schematic diagram designates components in which safety can be of special significance. It is particularly recommended that exact cataloged parts be used for replacement of components which are designated by a (★) in the parts list and the shaded areas on the schematic diagram. Use of substitute replacement parts which do not have the same safety characteristics as recommended in factory service information may create Shock, Fire or other hazards, or excessive X-Radiation.



NOTES:

1. ALL CAPACITANCE VALUES ARE IN PICOFARADS AND CAPACITORS ARE CHIP COMPONENTS UNLESS OTHERWISE SPECIFIED.
2. CW — WEDGE CAP.
3. ALL RESISTANCE VALUES ARE IN OHMS, 1/8W, AND RESISTORS ARE CHIP COMPONENTS UNLESS OTHERWISE SPECIFIED.
   K – 1,000   M – 1,000,000
   RESISTORS MARKED 1/8W, 1/4W, AND 1/2W ARE AXIAL RESISTORS
4. VIDEO IF — 45.75MHZ
   AUDIO IF — 41.25MHZ
5. RECEIVING CHANNELS:
   2 — 6
   A-2 — 13
   J — WW
   14 — 83
6. INPUT IMPEDANCE:
   VHF 75 OHMS
   UHF 300 OHMS
7. OUTPUT IMPEDANCE:
   75 OHMS
8. FOR ALL VOLTAGE MEASUREMENTS USE A HIGH IMPEDANCE VOLTMETER (10 M OHMS OR MORE).

NOTE: FOR REPAIRS REQUIRING PARTS, ORDER A REPLACEMENT TUNER.

UHF/VHF 130 CHANNEL "CHIP" TUNER SCHEMATIC DIAGRAM

UHF/VHF TUNER BANDSWITCHING VOLTAGES AND CABLE FREQUENCIES CHART

	LO-VHF (CHANNEL 2-6) CABLE 64-66	HI-VHF (CHANNEL 7-13) & CABLE MIDBAND A-2, A-1, (A - I) CH. 60, 61, (14 - 22)	CABLE SUPERBAND CH. 23 - 36 (J - W) CABLE HYPERBAND CH. 37 - 59	UHF (CHANNEL 14 - 83)
RECEIVING BAND	BAND I	BAND II	BAND III	BAND IV
SW1 +/-10%	-15V	-15V	+9V	-15V
SW2 +/-10%	-15V	+9V	+9V	+9V
VHF RF & OSC B+ +/-10%	+12V	+12V	+12V	0V
MIXER B+ +/-10%	+12V	+12V	+12V	+12V
UHF B+ +/-10%	0V	0V	0V	+12V
AGC @ MAX GAIN	0.0V	0.0V	0.0V	0.0V
TUNING VOLTAGE	0-30	0-30	0-30	0-30

130 CABLE CHANNEL CHART

FREQ SPECTRUM	54MHz TO 88MHz	108MHz TO 174MHz	174MHz TO 216MHz	216MHz TO 300MHz	300MHz TO 438MHz	470MHz TO 890MHz
CHANNEL BAND	LO VHF 2-6	MID BAND CABLE (A-2)—I	HI VHF 7-13	SUPER BAND CABLE J-W	HYPERBAND CABLE AA-WW	UHF 14-83
TV CHANNEL NUMBER INDICATOR	2-6	60 (A-2) 61 (A-1) 14-22 (A-I)	7-13	23-36	37-59	14-83

TECHNICIAN NOTES

PM MAIN SIGNAL CIRCUIT BOARD LAYOUT

COMPONENT SIDE (LEFT), COPPER SIDE (RIGHT)

CAPACITORS
C101-F2
C102-F2
C103-F2
C104-E2
C105-E1
C106-E3
C107-C1
C109-D3
C111-D2
C113-E2
C114-D2
C115-D2
C119-G1
C120-D2
C121-E2
C124-D3
C125-E3
C126-D3
C127-D1
C128-D3
C129-G3
C130-C2
C131-F3
C132-E2
C133-F2
C136-B2
C137-E3
C140-E1
C141-G1
C142-C3
C144-C2
C169-A1
C181-D3
C182-D4
C183-C4
C185-D4
C186-D3
C190-D4
C193-C4
C195-D4
C196-E4
C197-C4
C198-D4
C199-C4
C200-G3
C202-F4
C204-D9
C208-E6
C210-E6
C218-D7
C222-D9
C234-D7
C236-C5
C250-D7
C256-E6
C299-E8
C300-E6
C302-F6
C308-E7
C310-F5
C312-F7
C316-F7
C320-F8
C321-D8
C322-F8
C326-E8
C330-E7
C334-E8
C336-G5
C350-E9
C352-F9
C354-E9
C371-G6
C372-G8
C373-D7
C374-F5
C375-G5
C377-G6
C378-F8
C501-C7
C503-C7
C505-C8
C506-C7
C507-D8
C509-B7
C512-C5
C513-C7
C515-C6
C521-C8
C523-C7
C525-B4
C581-C7
C601-B7
C603-A8
C605-B7
C607-B6
C609-A6
C612-B6
C613-A4
C614-A3
C615-B5
C617-A5
C619-B5
C621-B5
C623-A7
C970-A1
C971-B2
C990-A9
C991-B9
C993-A8
C994-A8

RESISTORS
R102-F2
R103-F1
R104-F2
R105-F1
R108-F2
R109-D1
R111-C1
R112-B1
R113-B2
R114-C2
R115-D2
R116-E1
R117-D3
R118-E2
R119-G1
R121-D1
R122-D3
R123-D3
R124-E1
R125-G1
R126-G1
R128-D1
R129-E1
R130-D1
R131-F1
R133-F1
R135-F2
R139-B1
R141-B1
R142-B3
R144-B2
R146-C2
R150-B2
R152-C3
R154-C3
R156-B3
R158-F5
R160-B3
R161-A1
R162-A1
R164-A2
R166-F5
R174-D3
R179-F5
R180-C3
R181-E4
R182-D4
R183-C4
R186-E4
R188-E4
R194-C4
R196-D3
R197-E4
R200-F3
R202-F4
R209-C9
R210-C9
R211-D6
R212-D6
R213-D5
R215-D6
R218-F5
R221-D5
R222-D6
R224-E5
R226-D7
R227-E6
R229-E6
R230-E6
R232-C9
R233-D8
R234-C9
R237-D9
R239-D9
R240-C9
R250-D7
R252-D7
R254-D6
R258-D6
R262-C5
R300-F6
R303-D9
R307-G7
R310-F7
R312-F7
R313-F7
R316-F7
R317-D8
R318-D8
R319-E8
R320-E7
R322-E8
R326-F8
R328-F8
R330-F9
R336-E8
R338-F8
R350-E8
R352-D8
R356-E8
R371-G7
R372-G7
R377-G8
R378-E8
R379-D9
R380-E8
R381-E5
R382-E9
R384-E9
R386-F9
R388-E9
R503-A6
R505-C8
R507-C8
R508-C7
R511-C7
R513-D8
R515-C6
R516-C7
R518-C6
R519-C7
R521-B6
R523-B3
R531-B7
R537-C8
R539-C8
R541-C8
R601-B7
R603-B8
R605-B7
R609-A6
R610-A6
R611-A7
R612-A7
R613-B7
R615-A7
R617-A7
R619-A7
R621-B5
R623-A6
R627-A6
R631-A9
R633-B6
R635-B6
R637-A6
R641-A2
R643-A3
R645-A4
R647-A5
R649-A5
R651-B5
R653-C5
R655-A5
R657-A5
R950-A1
R935-B9
R935A-B9
R936-A8
R990-A9
R990A-A9
R996-A8
R998-B8

JUMPERS
J1-G7
J2-E4
J3-D7
J3-G8
J4-E2
J6-D2
J7-C2
J8-E9
J8-C8
J9-E5
J10-E5
J11-F5
J12-C3
J15-G3
J16-G2
J17-D4
J18-C5
J19-C4
J21-C5
J22-C5
J23-D5
J25-B3
J26-G6
J27-F5
J28-E5
J30-C3
J31-E2
J32-C5
J33-E5
J35-F6
J35-C6
J38-G8
J40-D8
J41-D8
J42-B6
J43-C6
J44-C6
J45-C6
J46-A3
J47-A4
J48-E3
J49-E3
J50-E3
J51-F4
J52-G4
J53-C5
J54-B5
J56-D7
J57-A8
J58-E6
J59-E6
J60-B4
J61-C5
J62-G7
J64-G7
J65-B8
J66-D8
J68-F8
J69-E8
J70-G9
J71-D7
J72-G8
J73-F5
J74-F7
J75-F8
J77-F7
J78-G5
J79-D7
J80-F8
J82-F8
J83-F8
J84-G5
J85-E2
J90-G8
J91-G7
J95-B8
J96-B3
J97-E4
J98-B2
J99-B3
J100-B7

DIODES
Y187-D4
Y189-E4
Y190-B1
Y202-D6
Y204-C9
Y206-D6
Y208-C9
Y218-C9
Y299-G3
Y300-G7
Y350-D9
Y352-D9
Y354-D9
Y503-C6
Y504-B9
Y603-A4
Y605-A4
Y607-A3
Y609-A2
Y990-C8
Y992-A8
Y933-A4
Y991-B8

TRANSISTORS
Q105-F1
Q107-C1
Q110-C2
Q112-C2
Q114-B2
Q116-B3
Q118-A1
Q200-D6
Q202-D6
Q204-G4
Q208-G4
Q210-C9
Q214-F9
Q216-E9
Q218-C9
Q300-G8
Q601-A2
Q603-A4

CRYSTAL
X300-F7

COILS
L102-F2
L104-C1
L105-C1
L106-D2
L107-C2
L108-D2
L112-E3
L113-E3
L180-C3
L190-C4
L200-G4
L204-F4
L216-E6
L220-F6
L236-C6
L300-F6
L320-E8
L322-D8

INTEGRATED CIRCUITS
IC101-E2
IC300-E7
IC501-B7
IC602-A1

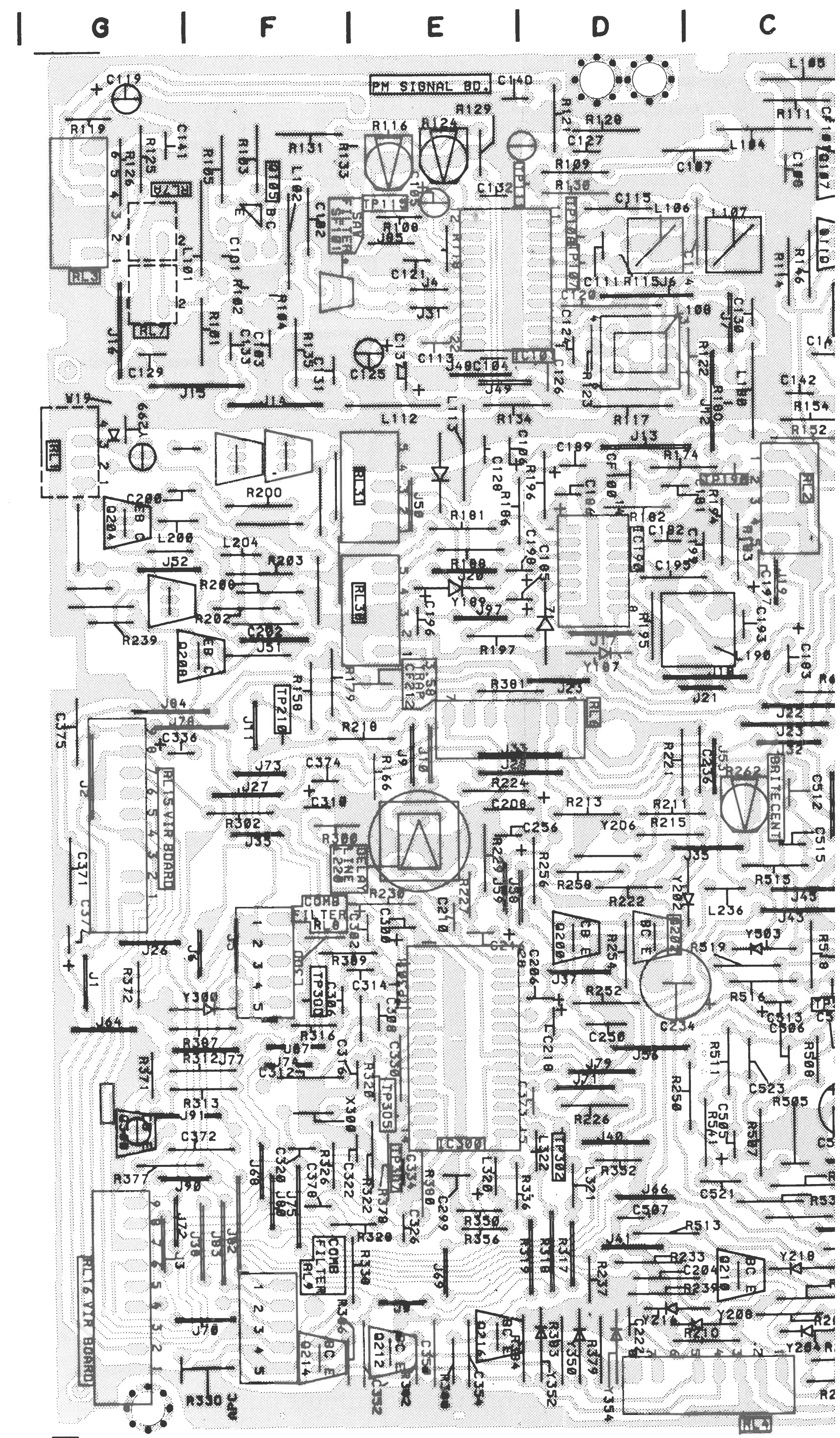
RECEPTACLES
RL1-G3
RL2-C3
RL3-G2
RL4-C9
RL6-E5
RL7-G2
RL7A-G2
RL8-F6
RL9-F9
RL10-B4
RL11-A6
RL15-G5
RL16-G9
RL30-F4
RL31-F3

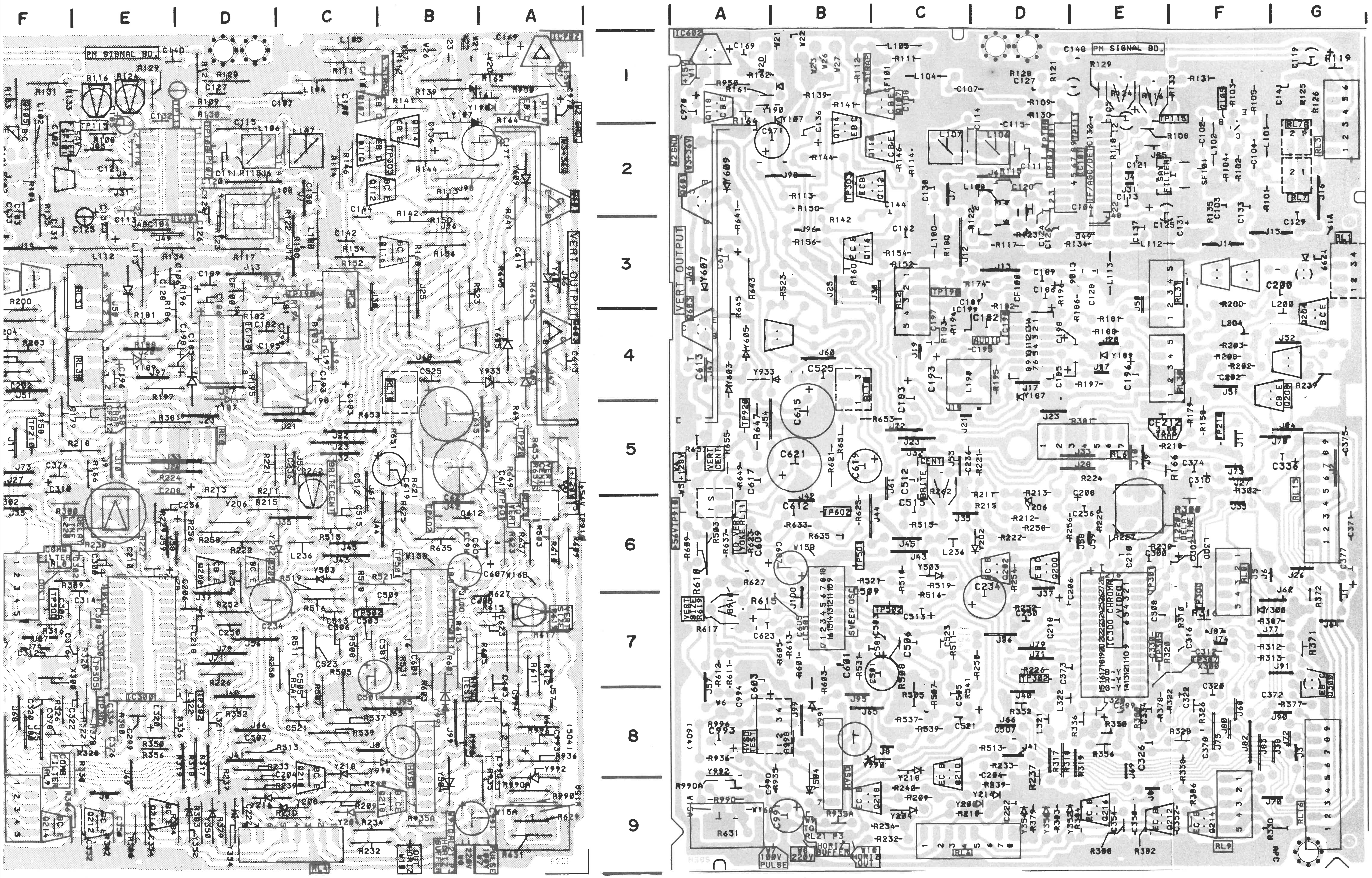
TEST POINTS
TP107-D2
TP108-D2
TP111-E2
TP115-F2
TP190-C3
TP210-F5
TP300-F7
TP301-E6
TP302-D8
TP303-B2
TP305-E7
TP307-F7
TP501-B6
TP502-C7
TP602-B6
TP920-A5

CERAMIC FILTERS
CF100-D3
CF101-C1
FC212-E5

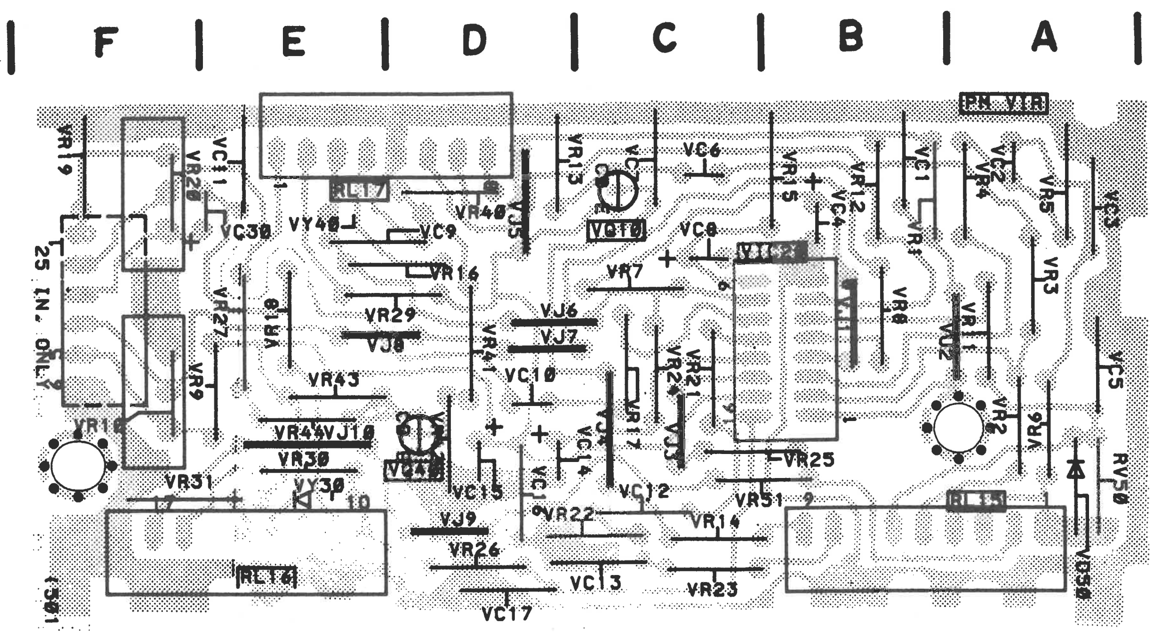
SF's
SF101-F2

29-2403-83

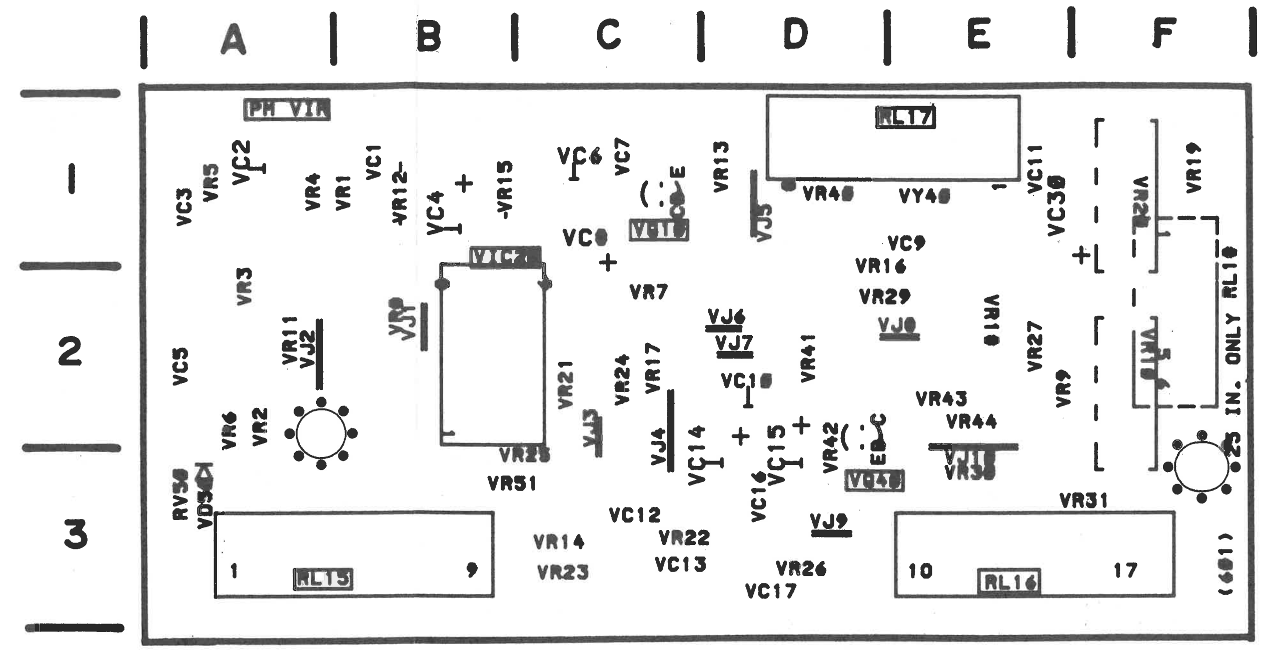



PM SIGNAL BD.
VERT OUTPUT

PM VIR CIRCUIT BOARD LAYOUT



COMPONENT SIDE



COPPER SIDE

RESISTORS
VR1-B1
VR2-A2
VR3-A3
VR4-A1
VR5-A1
VR6-A2
VR7-C2
VR8-B2
VR10-E2
VR11-A2
VR12-B1
VR13-D1
VR14-C3
VR15-B1
VR16-D2
VR17-C2
VR19-F1
VR20-F1
VR21-C2
VR22-C3
VR23-C3
VR24-C2
VR25-C3
VR26-D3
VR27-E2
VR29-D2
VR30-E3
VR31-F3
VR40-D1
VR41-D2
VR42-D3
VR43-E2
VR44-E2
VR50-A3
VR51-B3

CAPACITORS
VC1-B1
VC2-A1
VC3-A1
VC4-B1
VC5-A2
VC6-C1
VC7-C1
VC8-C1
VC9-E1
VC10-D2
VC11-E1
VC12-C3
VC13-C3
VC14-C3
VC15-D3
VC16-D3
VC17-D3
VC30-E1

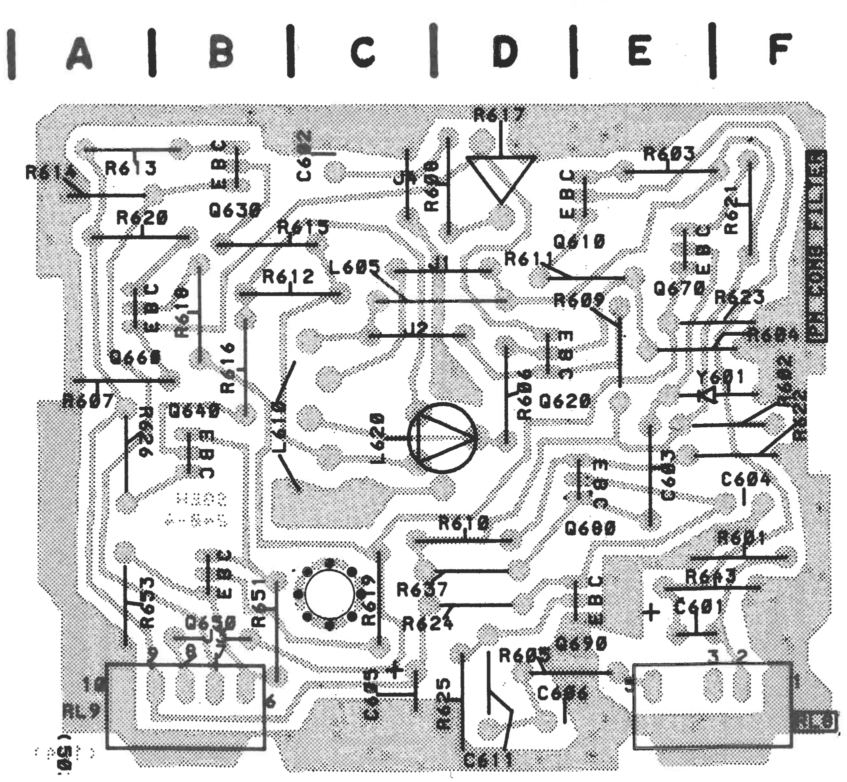
TRANSISTORS
VQ10-C1
VQ40-D3

INTEGRATED CIRCUITS
VIC20-B2

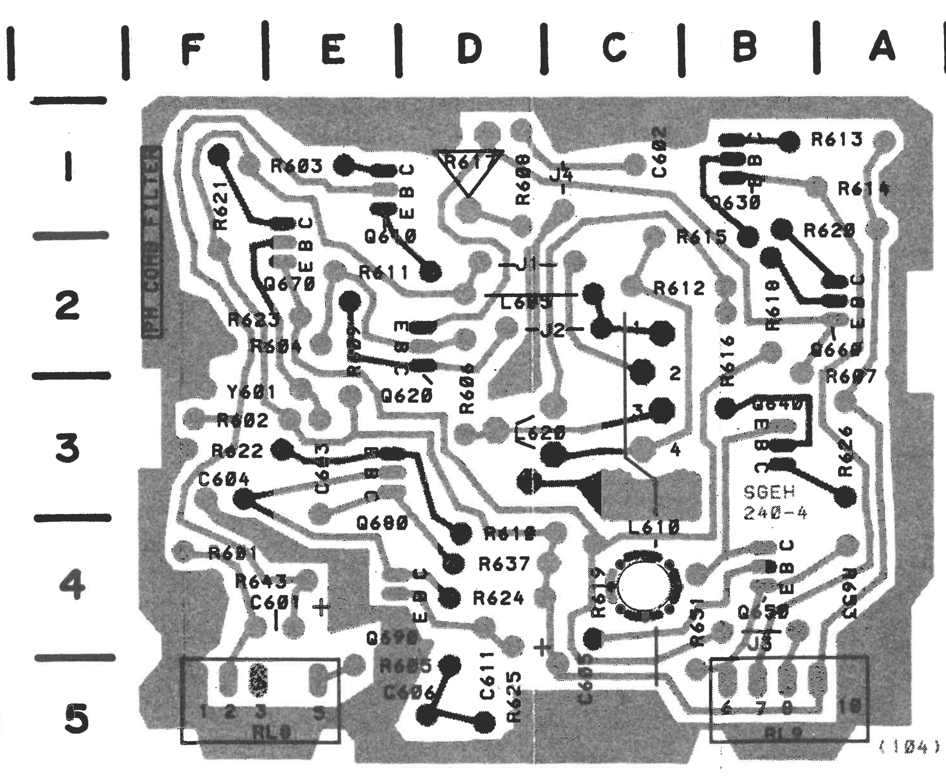
RECEPTACLES
RL14-E3
RL17-E1

DIODE
VY40-E1

PM COMB FILTER CIRCUIT BOARD LAYOUT



COMPONENT SIDE



COPPER SIDE

RESISTORS
R601-F4
R602-F3
R603-E1
R604-F2
R605-D4
R606-D3
R607-A3
R608-D1
R609-E2
R610-D4
R611-D2
R612-B2
R613-A1
R614-A1
R615-C1
R616-B2
R617-D1
R618-B2
R619-C4
R620-A1
R621-F1
R622-F3
R623-F2
R624-C4
R625-D5
R626-A3
R637-D4
R643-E4
R651-B4
R653-A4

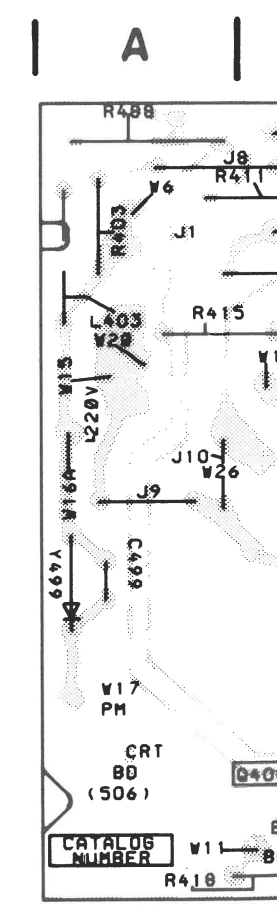
CAPCITORS
C601-E4
C602-C1
C603-E3
C604-F3
C605-C5
C606-D5
C611-D5

COILS
L605-C2
L610-B3
L620-C3

TRANSISTORS
Q610-E1
Q620-D3
Q630-B1
Q640-B3
Q650-B4
Q660-A2
Q670-E2
Q680-E4
Q690-E4

RECEPTACLES
RL8-F5
RL9-A5

JUMPERS
J1-D2
J2-C2
J4-C1



CO

PM 2-WATT AUDIO CIRCUIT BOARD LAYOUT

RESISTORS
VR1-B1
VR2-A2
VR3-A3
VR4-A1
VR5-A1
VR6-A2
VR7-C2
VR8-B2
VR10-E2
VR11-A2
VR12-B1
VR13-D1
VR14-C3
VR15-B1
VR16-D2
VR17-C2
VR19-F1
VR20-F1
VR21-C2
VR22-C3
VR23-C3
VR24-C2
VR25-C3
VR26-D3
VR27-E2
VR29-D2
VR30-E3
VR31-F3
VR40-D1
VR41-D2
VR42-D3
VR43-E2
VR44-E2
VR50-A3
VR51-B3

CAPACITORS
VC1-B1
VC2-A1
VC3-A1
VC4-B1
VC5-A2
VC6-C1
VC7-C1
VC8-C1
VC9-E1
VC10-D2
VC11-E1
VC12-C3
VC13-C3
VC14-C3
VC15-D3
VC16-D3
VC17-D3
VC30-E1

TRANSISTORS
VQ10-C1
VQ40-D3

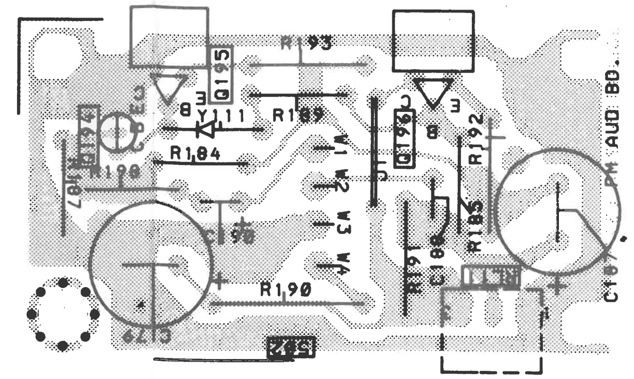
INTEGRATED CIRCUITS
VIC20-B2

RECEPTACLES
RL14-E3
RL17-E1

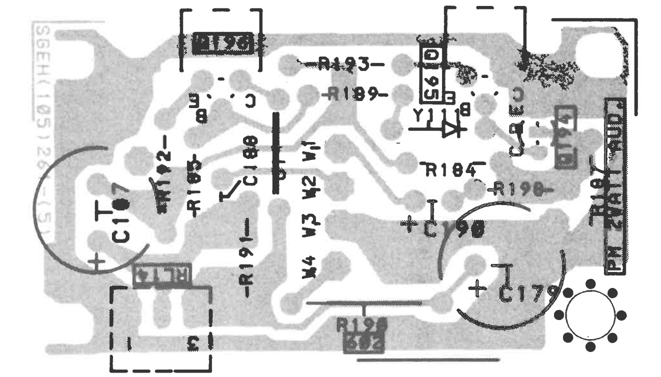
DIODE
VY40-E1

VD
VD50-A3

JUMPERS
VJ0-D2
VJ1-B2
VJ2-A2
VJ3-C2
VJ4-C3
VJ5-D1
VJ6-D2
VJ7-D2
VJ9-D3
VJ10-E3

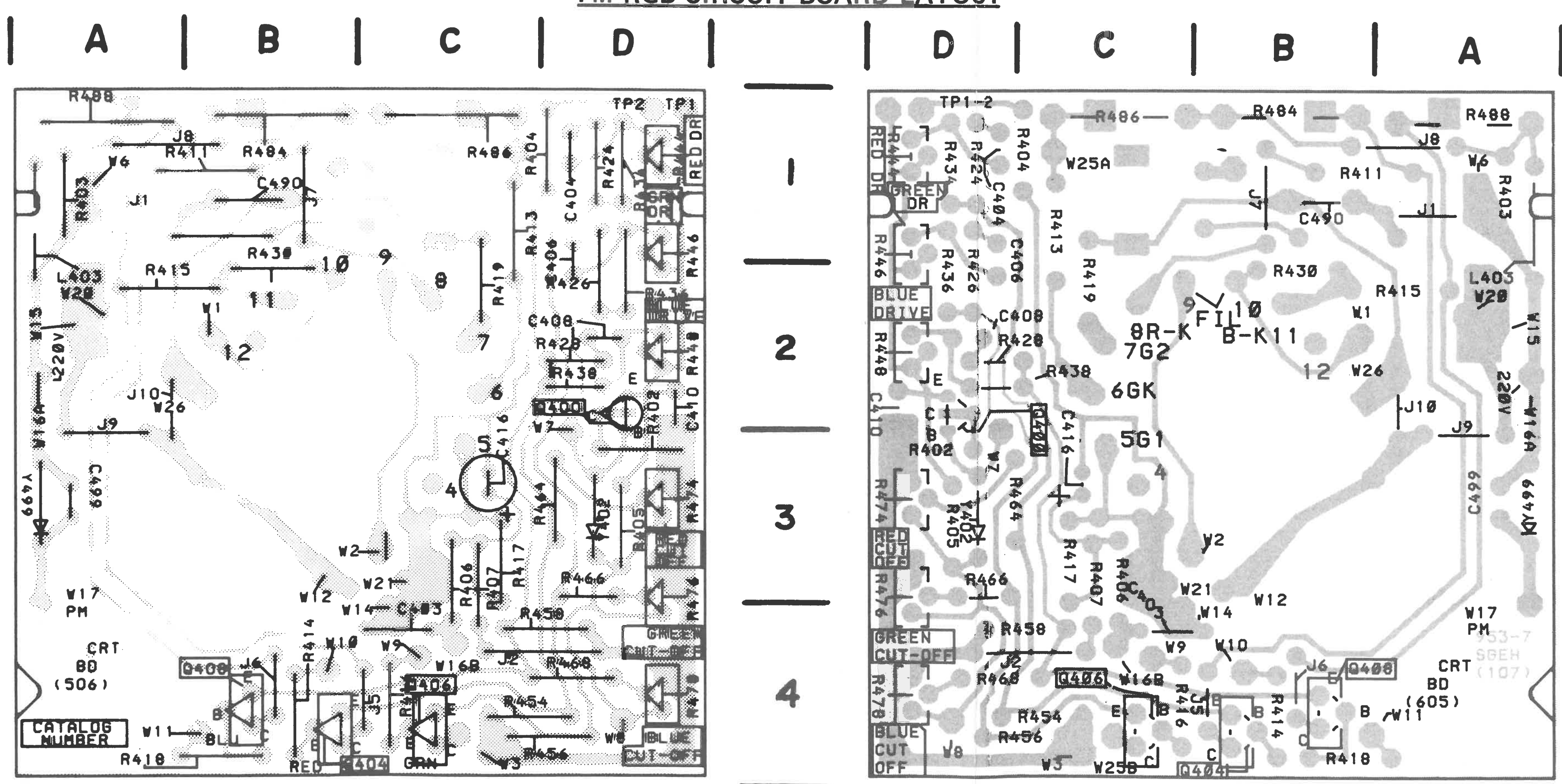


COMPONENT SIDE



COPPER SIDE

PM RGB CIRCUIT BOARD LAYOUT



COMPONENT SIDE

COPPER SIDE

RESISTORS
R402-D2
R403-A1
R404-D1
R405-D3
R406-C3
R407-C3
R411-B1
R413-C1
R414-B4
R415-A2
R416-C4
R417-C3
R418-A4
R419-C2
R424-D1
R426-D2
R428-D2
R430-B1
R434-D1
R436-D2
R438-D2
R444-D1
R448-D2
R454-C4
R456-D4
R458-D4
R464-D3
R466-D3
R468-D4
R474-D3
R476-D3
R478-D4
R484-B1
R486-C1
R488-A1

CAPACITORS
C403-C4
C404-D1
C406-D2
C408-D2
C410-D2
C416-C3
C490-B1
C499-A3

DIODES
Y402-D3
Y499-A3

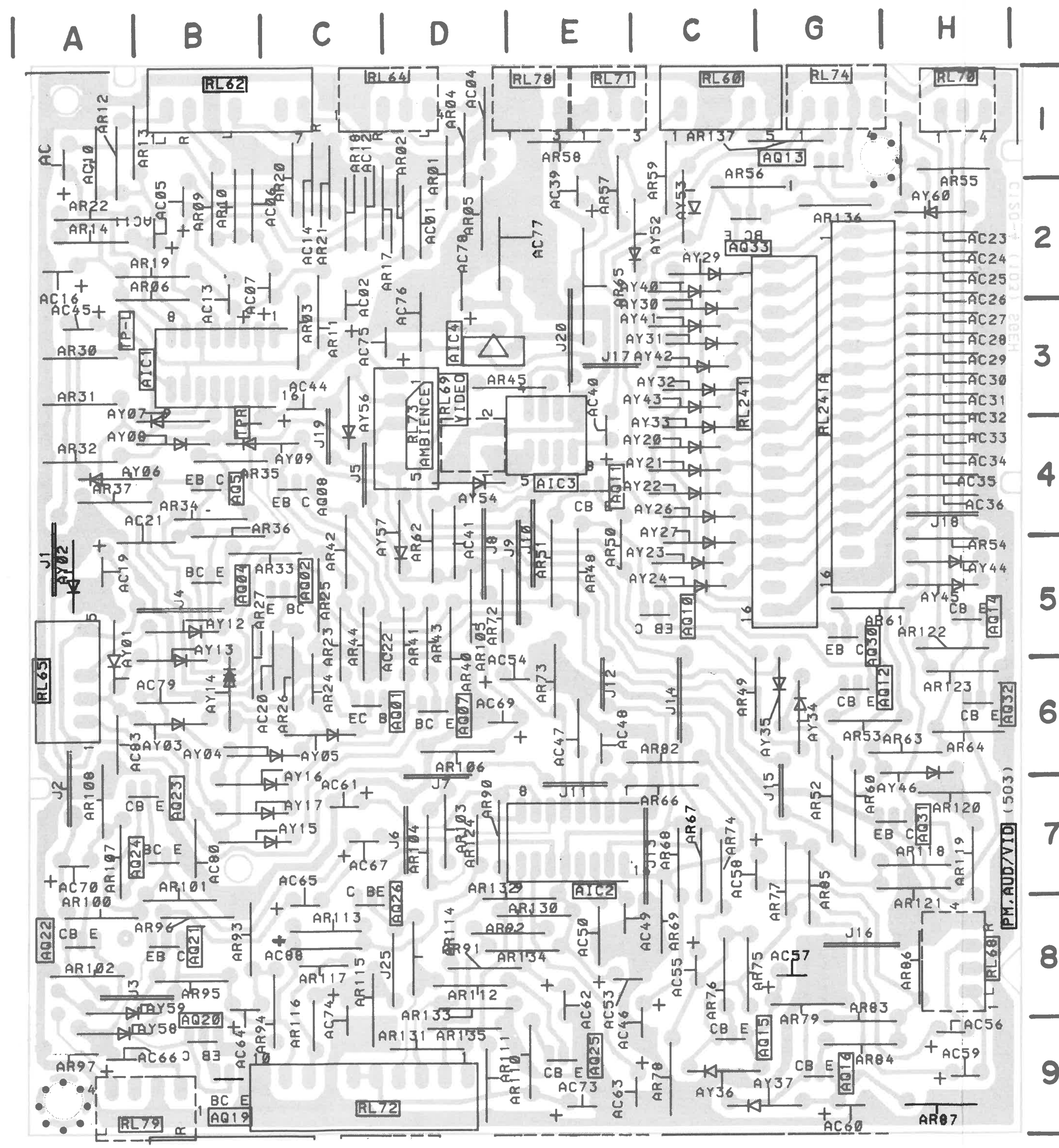
TRANSISTORS
A400-D2
Q404-B4
Q406-C4
C408-B4

COIL
L403-A2

TEST POINTS
TP1-D1
TP2-D1

JUMPERS
J2-C4
J5-C4
J7-B1
J8-A1
J9-A2

PM AUDIO/VIDEO CONTROL CIRCUIT BOARD LAYOUT (CONT.)



COPPER SIDE

DIODES

AY01-H5
AY02-H5
AY03-G6
AY05-F6
AY06-H4
AY07-G4
AY08-G4
AY09-G4
AY12-G5
AY13-G6
AY14-G6
AY15-G7
AY16-G7
AY17-G7
AY20-C4
AY21-C4
AY22-C4
AY23-C5
AY24-C5
AY26-C4
AY27-C5
AY29-C2
AY30-C3
AY31-C3
AY32-C3
AY33-C4
AY34-B6
AY35-B6
AY36-C9
AY37-C9
AY40-C2
AY41-C3
AY42-C3
AY43-C3
AY44-A5
AY45-A5
AY46-A6
AY51-A1
AY52-D2
AY53-C2
AY54-E4
AY56-F3
AY57-F5
AY58-H9
AY59-H9
AY60-A2
AY84-G6

RECEPTACLES

RL60-C1
RL62-G1
RL64-F1
RL65-H6
RL68-A8
RL69-E4
RL70-A1
RL71-D1
RL72-F9
RL74-B1
RL78-D1
RL79-H9
RL241
RL241A

INTEGRATED CIRCUITS

AIC01-H3
AIC2-D7
AIC3-E3
AIC4-E3

TRANSISTORS

AQ01-F6
AQ02-F5
AQ04-G5
AQ5-G4
AQ07-E6
AQ08-F4
AQ10-C5
AQ11-D4
AQ12-B6
AQ13-B1
AQ14-A5
AQ15-C9
AQ16-B9
AQ19-G9
AQ20-G9
AQ21-G8
AQ22-H8
AQ23-G7
AQ24-H7
AQ25-D9
AQ26-E8
AQ30-B5
AQ31-A7
AQ32-A6
AQ33-B2

TEST POINT

TP-L-H3

JUMPERS

J1-H5
J2-H7
J3-H8
J4-G5
J5-F4
J6-E7
J7-E6
J8-E5
J9-E5
J10-D5
J11-D7
J12-D6
J13-C7
J14-C6
J16-B8
J17-D3
J18-A4
J19-F4
J20-D3

CAPACITORS

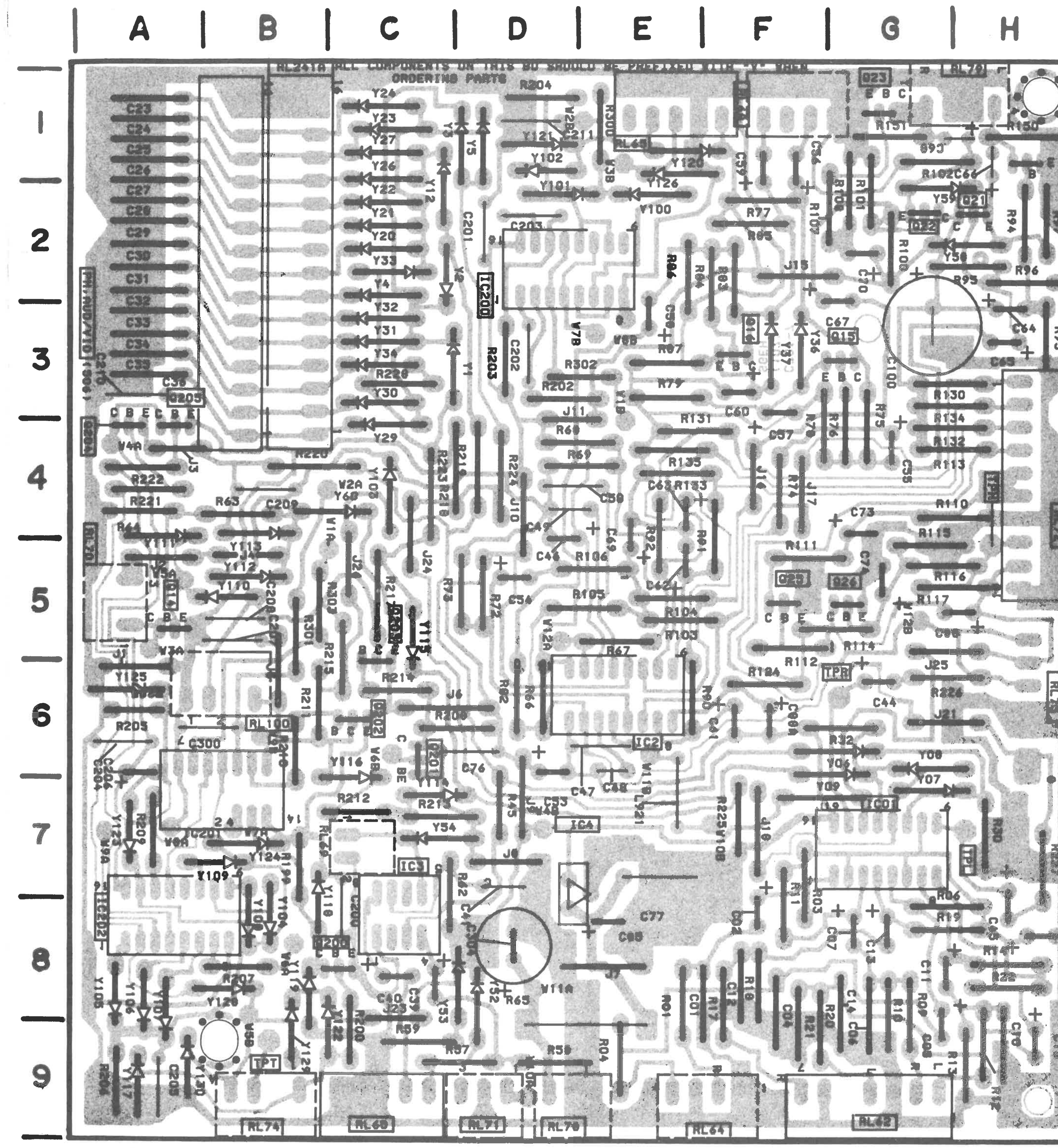
AC01-E2
AC04-E1
AC05-G2
AC06-G2
AC07-G2
AC10-H1
AC11-G2
AC12-F2
AC13-G2
AC14-F1
AC15-H1
AC16-H2
AC19-H5
AC20-G6
AC21-H4
AC22-F5
AC23-A2
AC24-A2
AC25-A2
AC26-A2
AC27-A3
AC28-A3
AC29-A3
AC30-A3
AC31-A3
AC32-A3
AC33-A4
AC34-A4
AC35-A4
AC36-A4
AC39-D2
AC40-D3
AC41-E5
AC44-F3
AC45-H3
AC46-D9
AC47-D6
AC48-D6
AC49-D8
AC50-D8
AC53-D8
AC54-E6
AC55-C8
AC56-A9
AC57-B8
AC58-C7
AC59-A9
AC60-B9
AC61-F7
AC62-D8
AC63-D9
AC64-G8
AC65-F7
AC66-H9
AC67-F7
AC68-H9
AC69-E6
AC70-H7
AC73-D9
AC74-F9
AC75-F3
AC76-E3
AC77-E2
AC78-E2
AC79-G6
AC80-G7
AC83-H6
AC88-F8

RESISTORS

AR87-A9
AR90-E7
AR91-E8
AR92-E8
AR93-G8
AR94-G8
AR95-G8
AR96-G8
AR97-H9
AR100-H8
AR101-G8
AR102-H8
AR103-E7
AR104-E7
AR105-E5
AR107-H7
AR108-H7
AR110-E9
AR111-E9
AR112-E8
AR113-F8
AR114-E8
AR115-F8
AR116-F9
AR117-F8
AR118-A7
AR119-A7
AR120-A7
AR121-A7
AR122-A5
AR123-A6
AR124-E7
AR130-D8
AR131-E9
AR132-E8
AR133-E8
AR134-D8
AR135-E9
AR136-B2
AR137-B1
AR186-E6

PM AUDIO/VIDEO CONTROL CIRCUIT BOARD LAYOUT

EP93X522 (PM–C Only)



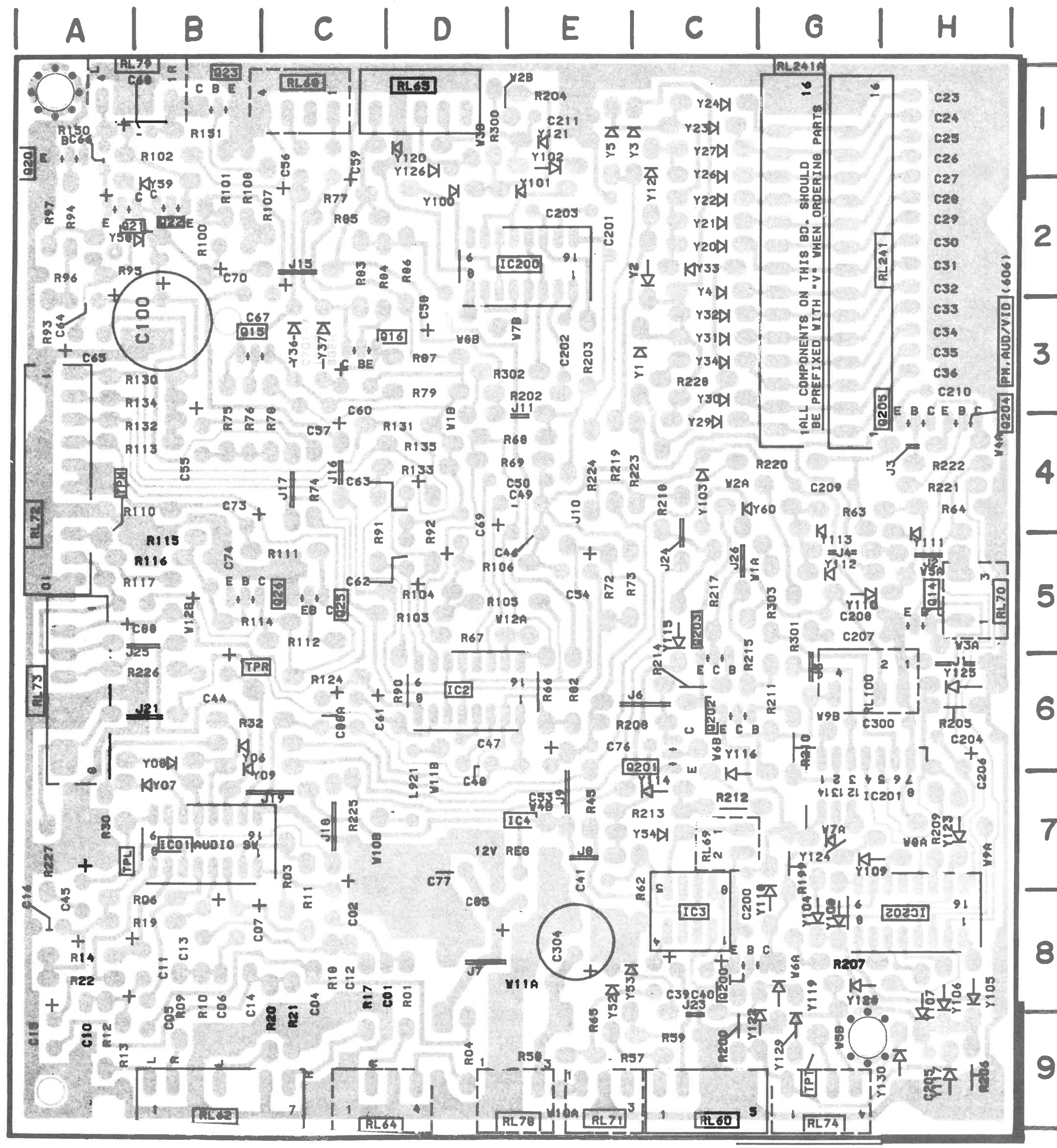
COMPONENT SIDE

RESISTORS	VR11 - F7	VR20 - F8	VR58 - D9	VR67 - E5	VR76 - G4	VR85 - F2	VR94 - H2	VR103 - E5
VR01 - E8	VR12 - H9	VR21 - F8	VR59 - C9	VR68 - D4	VR77 - F2	VR86 - E2	VR95 - H2	VR104 - E5
VR03 - F7	VR13 - H9	VR22 - H8	VR62 - C7	VR69 - D4	VR78 - F2	VR87 - E3	VR96 - H2	VR105 - E5
VR04 - E9	VR14 - H8	VR30 - H7	VR63 - B4	VR72 - D5	VR79 - E3	VR90 - F6	VR97 - H2	VR106 - E5
VR06 - G7	VR17 - F8	VR32 - G6	VR64 - A4	VR73 - D5	VR82 - D6	VR91 - F6	VR100 - G2	VR107 - F2
VR09 - G8	VR18 - F8	VR45 - D7	VR65 - D8	VR74 - F4	VR83 - F2	VR92 - E4	VR101 - G2	VR108 - G2
VR10 - G8	VR19 - G8	VR57 - C9	VR66 - D6	VR75 - G3	VR84 - F2	VR93 - H3	VR102 - G1	VR110 - G4

3/85 Supersedes 6/83

PM AUDIO/VIDEO CONTROL CIRCUIT BOARD LAYOUT (CONT.)

EP93X522 (PM–C Only)



COPPER SIDE

VR111 - F5	VR124 - F6	VR150 - H1	VR205 - A6	VR212 - C7	VR220 - B4	VR227 - H7
VR112 - F5	VR130 - G3	VR151 - G1	VR206 - A9	VR213 - C7	VR221 - A4	VR228 - C3
VR113 - G4	VR131 - E4	VR199 - B7	VR207 - B8	VR214 - C6	VR222 - A4	VR300 - E1
VR114 - G5	VR132 - G4	VR200 - C9	VR208 - C6	VR215 - C5	VR223 - C4	VR301 - B5
VR115 - G4	VR133 - E4	VR202 - D3	VR209 - A7	VR217 - C5	VR224 - D4	VR302 - E3
VR116 - G5	VR134 - G3	VR203 - D3	VR210 - B6	VR218 - C4	VR225 - F7	VR303 - B5
VR117 - G5	VR135 - E4	VR204 - D1	VR211 - B6	VR219 - D4	VR226 - G6	

CAPACITORS

VC01 - F8	VC10 - H9
VC02 - F8	VC11 - G8
VC04 - F8	VC12 - F8
VC05 - G9	VC13 - G8
VC06 - G8	VC14 - G8
VC07 - G8	VC15 - H9

CAPACITORS (CONTINUED)

VC16 - H8
VC23 - A1
VC24 - A1
VC25 - A1
VC26 - A1
VC27 - A2
VC28 - A2
VC29 - A2
VC30 - A2
VC31 - A2
VC32 - A2
VC33 - A3
VC34 - A3
VC35 - A3
VC36 - A3
VC39 - C8
VC40 - C8
VC41 - D7
VC44 - G6
VC45 - H7
VC46 - H7
VC47 - E6
VC48 - E6
VC49 - D4
VC50 - D4
VC53 - D6
VC54 - D5
VC55 - G4
VC56 - F1
VC57 - F1
VC58 - E3
VC59 - F1
VC60 - F3
VC61 - F6
VC62 - E5
VC63 - E4
VC64 - H3
VC65 - H3
VC66 - H1
VC67 - G3
VC68 - H1
VC69 - E4
VC70 - G2
VC73 - G4
VC74 - G5
VC76 - D6
VC77 - E7
VC85 - E8
VC88A - F6
VC100 - G7
VC200 - G7
VC201 - D2
VC202 - D3
VC203 - D2
VC204 - A6
VC205 - A9
VC206 - A6
VC207 - B5
VC208 - B5
VC209 - B4
VC210 - A3
VC211 - D1
VC300 - B6
VC301 - B6
VC304 - D8

DIODES

VY1 - D3
VY2 - C2
VY3 - D1
VY4 - D1
VY5 - D1
VY6 - G6
VY7 - G6
VY8 - G6
VY9 - G6
VY12 - C1
VY20 - C2
VY21 - C2
VY22 - C2
VY23 - C1
VY24 - C1
VY26 - C1
VY27 - C1
VY29 - C3
VY30 - C3
VY31 - C3
VY32 - C3
VY33 - C2
VY34 - C3
VY36 - F3
VY37 - F3
VY52 - D8
VY53 - C8
VY54 - C7
VY58 - H2
VY59 - G2
VY60 - G2
VY100 - E2
VY101 - D2
VY102 - D1
VY104 - B8
VY105 - A8
VY106 - A8
VY107 - A8
VY108 - B8
VY109 - B7
VY110 - B5
VY111 - A4
VY112 - B5
VY113 - B4
VY114 - B4
VY115 - C5
VY116 - C6
VY117 - A9
VY118 - B7
VY119 - B8
VY120 - E1
VY121 - D1
VY122 - B8
VY123 - A7
VY124 - B7
VY125 - A1
VY126 - E1
VY128 - B8
VY129 - B8
VY130 - A9

COIL

L921 - E7

INTEGRATED CIRCUITS

VIC1 - G7
VIC2 - E6
VIC3 - C8
VIC4 - D7
VIC200 - D2
VIC201 - B7
VIC202 - A8

TRANSISTORS

VQ14 - A5
VQ15 - G3
VQ16 - F3
VQ20 - H1
VQ21 - H2
VQ22 - G2
VQ23 - G1
VQ25 - F5
VQ26 - G5
VQ200 - B8
VQ201 - C6
VQ202 - C6
VQ203 - C5
VQ204 - A4
VQ205 - A3

JUMPERS

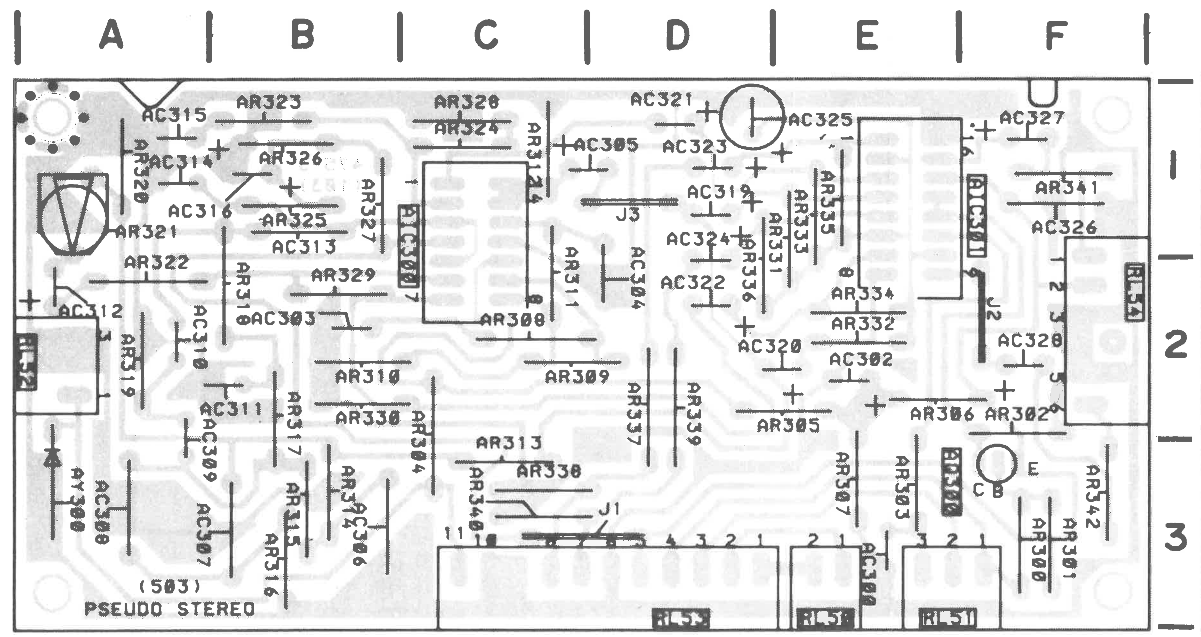
J1 - A6
J2 - A5
J3 - A4
J4 - B5
J5 - B6
J6 - C6
J7 - E8
J8 - D7
J9 - D7
J10 - D4
J11 - D4
J15 - F2
J16 - F4
J17 - F4
J18 - F7
J19 - G7
J21 - G6
J23 - C4
J24 - C4
J25 - G5
J26 - C5

RECEPTACLES

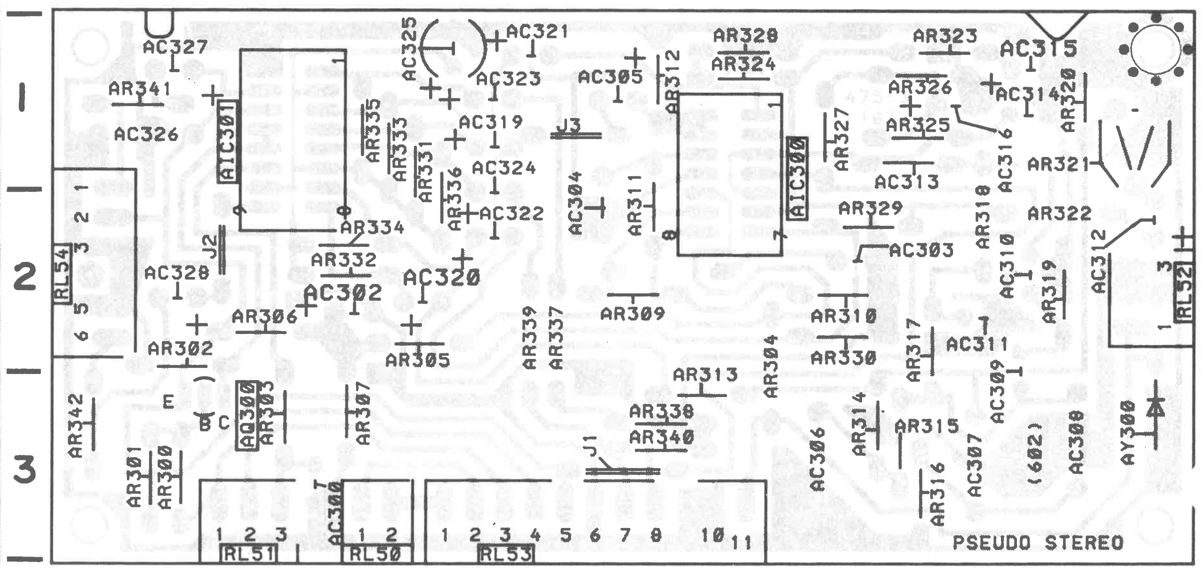
LR60 - C9
RL62 - G9
RL64 - F9
RL65 - E1
RL68 - F1
RL69 - C7
RL70 - A5
RL71 - D9
RL72 - H4
RL73 - H6
RL74 - B9
RL78 - D9
RL79 - H1
RL100 - B6
RL241A - B1

SOUND PLUS™ (PSEUDO STEREO) CIRCUIT BOARD LAYOUT

EP93X438 (PM–A/B/C)



COMPONENT SIDE



COPPER SIDE

RESISTORS		
AR300-F3	AR314-B3	AR329-B2
AR301-F3	AR315-B3	AR330-B2
AR302-F2	AR316-B3	AR331-E1
AR303-E3	AR317-B2	AR332-E2
AR304-C2	AR318-B2	AR333-E1
AR305-E2	AR319-A2	AR334-E2
AR306-E2	AR320-A1	AR335-E1
AR307-E3	AR321-A1	AR336-D2
AR308-C2	AR322-A2	AR337-D2
AR309-C2	AR323-B1	AR338-C3
AR310-B2	AR324-C1	AR339-D2
AR311-C2	AR325-B1	AR340-C3
AR312-C1	AR326-B1	AR341-F1
AR313-C3	AR327-B1	AR342-F3
	AR328-C1	

CAPACITORS	
AC300-E3	AC314-A1
AC302-E2	AC315-A1
AC303-B2	AC316-A1
AC304-D2	AC319-D1
AC305-D1	AC320-E2
AC306-B3	AC321-D1
AC307-B3	AC322-D2
AC308-A3	AC323-D1
AC309-A2	AC324-D1
AC310-A2	AC325-E1
AC311-B2	AC326-F1
AC312-A2	AC327-F1
AC313-B1	AC328-F2

JUMPERS
J1-D3
J2-F2
J3-D1

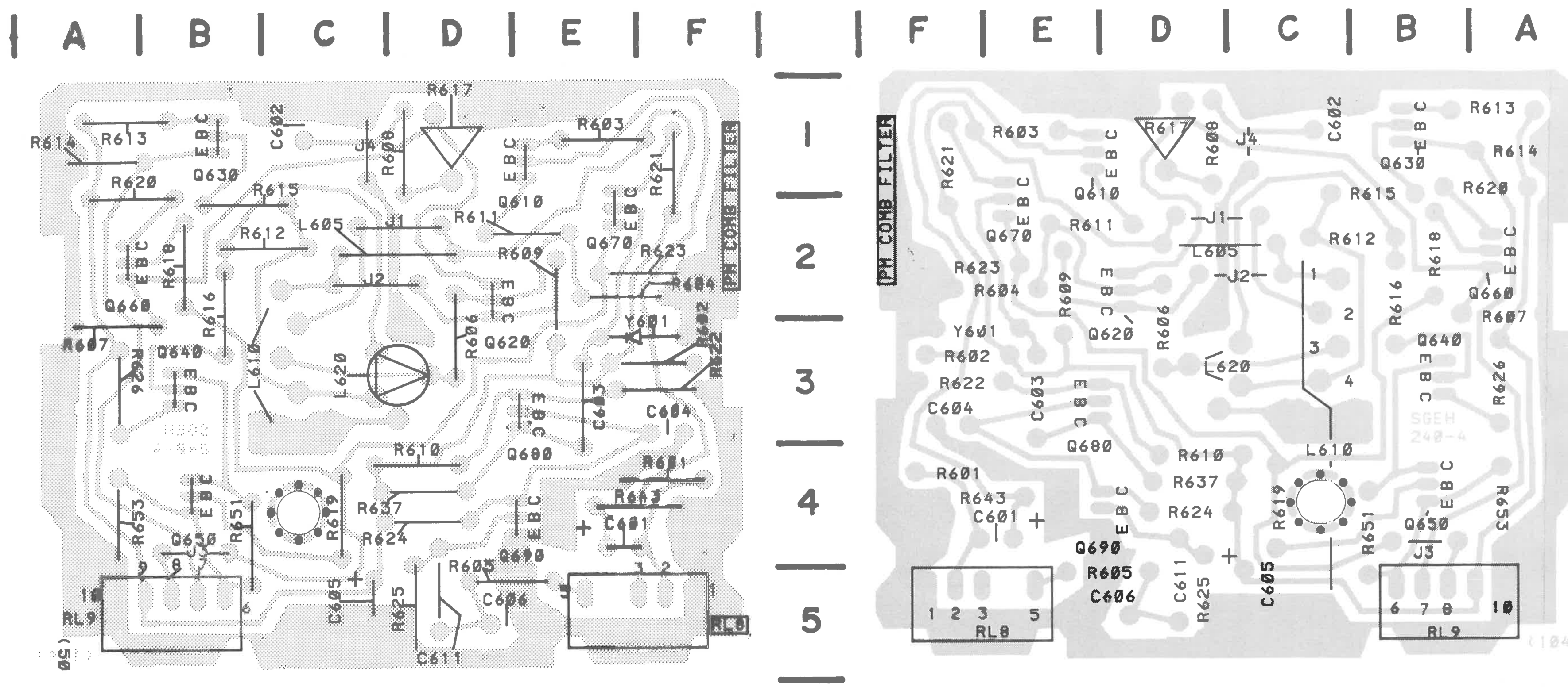
RECEPTACLES
RL50-E3
RL51-E3
RL52-A2
RL53-D3
RL54-F2

INTEGRATED CIRCUITS
AIC300-C1
AIC301-F1

TRANSISTOR
AQ300-E3

DIODE
AY300-A3

COMB FILTER CIRCUIT BOARD LAYOUT (PM-D CHASSIS)



COMPONENT SIDE

COPPER SIDE

RESISTORS	CAPCITORS
R601-F4	C601-E4
R602-F3	C602-C1
R603-E1	C603-E3
R604-F2	C604-F3
R605-D4	C605-C5
R606-D3	C606-D5
R607-A3	C611-D5
R608-D1	**COILS**
R609-E2	L605-C2
R610-D4	L610-B3
R611-D2	L620-C3
R612-B2	**TRANSISTORS**
R613-A1	Q610-E1
R614-A1	Q620-D3
R615-C1	Q630-B1
R616-B2	Q640-B3
R617-D1	Q650-B4
R618-B2	Q660-A2
R619-C4	Q670-E2
R620-A1	Q680-E4
R621-F1	Q690-E4
R622-F3	**RECEPTACLES**
R623-F2	RL8-F5
R624-C4	RL9-A5
R625-D5	**JUMPERS**
R626-A3	J1-D2
R637-D4	J2-C2
R643-E4	J4-C1
R651-B4	
R653-A4	

COMB FILTER CIRCUIT BOARD

EP93X435

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C601	EP31X170	4.7µf, 20%, 35V, Elect.
C602	ES25X6	4700pf, 5%, 50V, Polyester
C603	EP18X206	.022µf, 30%, 25V, Cer. Disc
C604	EP25X94	5600pf, 5%, 50V, Polyester
C605	EP31X162	100µf, 20%, 16V, Elect.
C606	EP25X102	3300pf, 5%, 50V Polyester
C611	EP18X169	.01µf, 30%, 25V, Cer. Disc

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R601	EP14X431	1.3K ohm, 5%, l/4W, Carbon
R602	EP14X380	27K ohm, 5%, l/4W, Carbon
R603	EP14X409	10 ohm, 5%, l/4W, Carbon
R604	EP14X416	510 ohm, 5%, l/4W, Carbon
R605	EP14X380	27K ohm, 5%, l/4W, Carbon
R606	ES14X70	100 ohm, 5%, l/4W, Carbon
R607	EP14X217	620 ohm, 5%, l/4W, Carbon
R608	EP14X268	22 ohm, 5%, l/4W, Carbon
R609	ES14X59	560 ohm, 5%, l/4W, Carbon
R610	ES14X59	560 ohm, 5%, l/4W, Carbon
R611	EP14X220	180 ohm, 5%, l/4W, Carbon
R612	ES14X71	1K ohm, 5%, l/4W, Carbon
R613	EP14X409	10 ohm, 5%, l/4W, Carbon
R614	ES14X60	680 ohm, 5%, l/4W, Carbon
R615	ES14X70	100 ohm, 5%, l/4W, Carbon
R616	ES14X70	100 ohm, 5%, l/4W, Carbon
R618	EP14X400	2.7K ohm, 5%, l/4W, Carbon
R619	EP14X400	2.7K ohm, 5%, l/4W, Carbon
R620	EP14X409	10 ohm, 5%, l/4W, Carbon
R621	EP14X409	10 ohm, 5%, l/4W, Carbon
R622	ES14X60	680 ohm, 5%, l/4W, Carbon
R623	ES14X71	1K ohm, 5%, l/4W, Carbon
R624	EP14X427	200K ohm, 5%, l/4W, Carbon
R625	EP14X427	200K ohm, 5%, l/4W, Carbon
R626	EP14X409	10 ohm, 5%, l/4W, Carbon
R637	EP14X103	10K ohm, 5%, l/4W, Carbon
R643	EP14X103	10K ohm, 5%, l/4W, Carbon
R651	EP14X389	91 ohm, 5%, l/4W, Carbon
R653	EP14X389	91 ohm, 5%, l/4W, Carbon

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
R617	EP49X466	250 ohm, 20%

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q610	EP15X88	VIDEO BUFFER-NPN, Silicon
Q620	EP15X88	INVERSE VIDEO AMP.-NPN, Silicon
Q630	EP15X88	LUMA BUFfFER-NPN, Silicon
Q640	EP15X88	CHROMA BUFFER-NPN, Silicon
Q650	EP15X88	SWITCH-NPN, Silicon
Q660	EP15X88	SWITCH-NPN, Silicon
Q670	EP15X88	BUFFER-NPN, Silicon
Q680	EP15X88	DELAY-NPN, Silicon
Q690	EP15X88	PULSE GEN.-NPN, Silicon

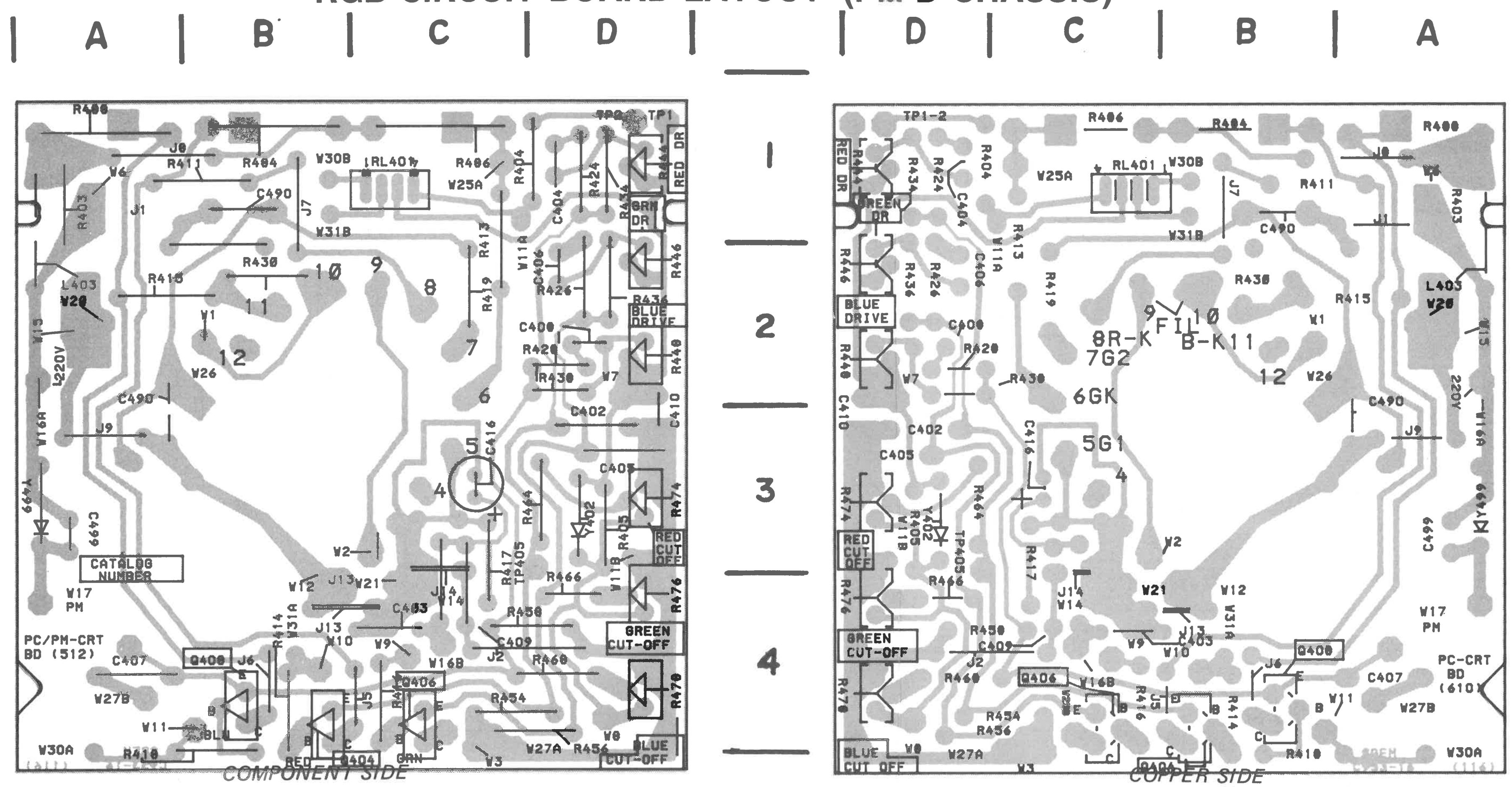
DIODE

REF. NO.	PART NO.	DESCRIPTION
Y601	ES16X27	Silicon

COILS

REF. NO.	PART NO.	DESCRIPTION
L605	EP36X136	CHOKE-15µh, 10%
L610	EP36X457	COIL-Delay Line
L620	EP36X473	COIL-Chroma, 5.3µh

RGB CIRCUIT BOARD LAYOUT (PM-D CHASSIS)



RESISTORS
R402-D2
R403-A1
R404-D1
R405-D3
R406-C3
R407-C3
R411-B1
R413-C1
R414-B4
R415-A2
R416-C4
R417-C3
R418-A4
R419-C2
R424-D1
R426-D2
R428-D2
R430-B1
R434-D1
R436-D2
R438-D2
R444-D1
R448-D2
R454-C4
R456-D4
R458-D4
R464-D3
R466-D3
R468-D4
R474-D3
R476-D3
R478-D4
R484-B1
R486-C1
R488-A1

CAPACITORS
C403-C4
C404-D1
C406-D2
C408-D2
C410-D2
C416-C3
C490-B1
C499-A3

DIODES
Y402-D3
Y499-A3

TRANSISTORS
A400-D2
Q404-B4
Q406-C4
C408-B4

COIL
L403-A2

TEST POINTS
TP1-D1
TP2-D1

JUMPERS
J2-C4
J5-C4
J7-B1
J8-A1
J9-A2

RGB CIRCUIT BOARD

EP93X610 (19")
EP93X611 (26")

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C402	EP18X196	330pf, 10%, 50V, HiK, Cer.Disc
C403	EP18X26	.01µf, 20%, 500V, HiK, Cer. Disc
C404	EP18X180	820pf, 20%, 50V, Hik, Cer. Disc
C405	EP18X196	330pf, 10%, 50V, HiK, Cer. Disc
C406	EP18X270	1000pf, 20%, 50V, HiK, Cer. Disc
C407	EP18X196	330pf, 10%, 50V, HiK, Cer. Disc
C408	EP18X205	560pf, 20%, 50V, HiK, Cer. Disc
C409	EP18X217	330pf, 20%, 500V, SHiK,, Cer. Disc
C490	EP18X301	4700pf, +80-20%, 2KV, HiK, Cer. Disc
C499	ES18X43	.01µf, 20%, 50V, HiK, Cer. Disc

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R403	EP14X103	10K ohm, 5%, l/4W, Carbon
R404	EP14X289	430 ohm, 5%, l/4W, Carbon
R405	ES14X59	560 ohm, 5%, l/4W, Carbon
★R411	EP14X38	3.3K ohm, 5%, 1/2W, Carbon
★R413	EP14X38	3.3K ohm, 5%, 1/2W, Carbon
R414	ES14X56	33 ohm, 5%, l/4W, Carbon
★R415	EP14X38	3.3K ohm, 5%, 1/2W, Carbon
R416	ES14X56	33 ohm, 5%, l/4W, Carbon
R418	ES14X56	33 ohm, 5%, l/4W, Carbon
★R419	EP14X38	3.3K ohm, 5%, l/4W, Carbon
★R424	ES14X70	100 ohm, 5%, l/4W, Carbon
★R426	ES14X70	100 ohm, 5%, l/4W, Carbon
★R428	ES14X70	100 ohm, 5%, l/8W, Carbon
R430	EP14X131	1meg ohm, 10%, 1/4W, Carbon
★R434	EP14X329	200 ohm, 5%, l/4W, Carbon
★R436	EP14X329	200 ohm, 5%, l/4W, Carbon
★R438	EP14X318	220 ohm, 5%, l/8W, Carbon
R454	ES14X65	4.7K ohm, 5%, l/4W, Carbon
R456	ES14X65	4.7K ohm, 5%, l/4W, Carbon
R458	ES14X65	4.7K ohm, 5%, l/4W, Carbon
★R464	EP14X381	3K ohm, 5%, l/4W, Carbon
★R466	EP14X381	3K ohm, 5%, l/8W, Carbon
★R468	EP14X381	3K ohm, 5%, l/4W, Carbon
★R484	EP14X231	12K ohm, 5%, 2W, Metal Oxide
★R486	EP14X231	12K ohm, 5%, 2W, Metal Oxide
★R488	EP14X231	12K ohm, 5%, 2W, Metal Oxide

POTENTIOMETERS

REF. NO.	PART NO.	DESCRIPTION
R444	EP49X469	Red Drive, 150 ohm, 20%
R446	EP49X469	Green Drive, 150 ohm, 20%
R448	EP49X469	Blue Drive, 150 ohm, 20%
R474	EP49X470	Red Cut Off, 5K ohm, 20%
R476	EP49X470	Green Cut Off, 5K ohm, 20%
R478	EP49X470	Blue Cut Off, 5K ohm, 20%

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q404	EP15X61	RED DRIVE-NPN, Silicon
Q406	EP15X61	GREEN DRIVE-NPN, Silicon
Q408	EP15X61	BLUE DRIVE-NPN, Silicon

DIODE

REF. NO.	PART NO.	DESCRIPTION
Y499	EP16X52	Zener, 15V

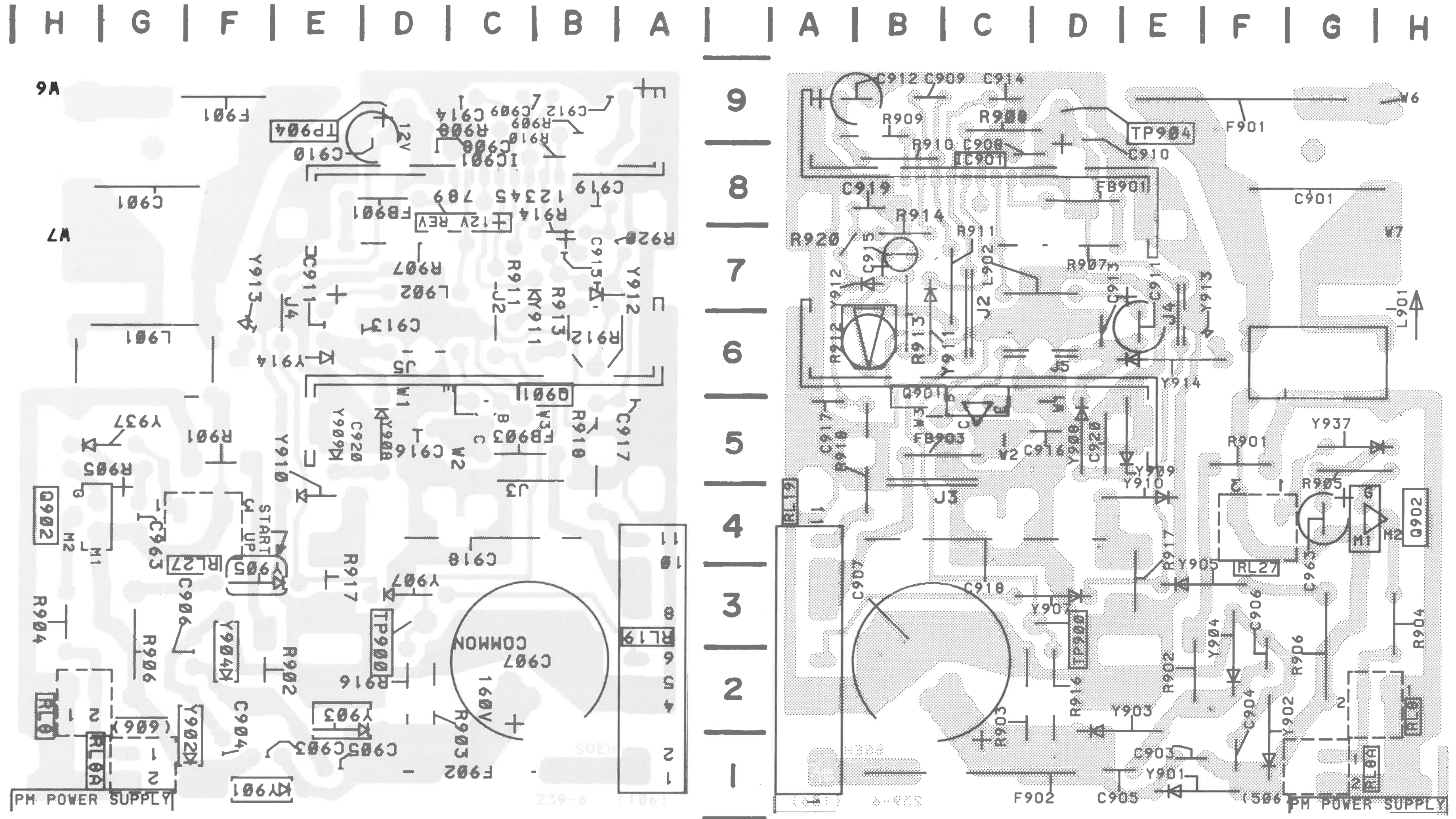
COIL

REF. NO.	PART NO.	DESCRIPTION
L403	ES36X82	CHOKE-220µh, 10%

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
RL4	EP8X92	CONNECTOR-8 Pos.
	★EP34X69	SOCKET-CRT

POWER SUPPLY CIRCUIT BOARD LAYOUT (PM-D CHASSIS)



COPPER SIDE

COMPONENT SIDE

RESISTORS
R901-F5
R902-E3
R903-C2
R904-H4
R905-G5
R906-G3
R908-C9
R909-B9
R910-B9
R911-B7
R912-B7
R913-B7
R914-B8
R916-D3
R917-D4
R918-B6
R920-A8

CAPACITORS
C901-G8
C903-E2
C904-F2
C905-D2
C906-F4
C907-B3
C908-C9
C909-B9
C910-E9
C911-E7
C912-B9
C913-D7
C914-C9
C915-B7
C916-D5
C917-A6
C918-C4
C919-A8
C920-D5
C963-G4

DIODES
Y901-E2
Y902-F2
Y903-D2
Y904-F3
Y905-E4
Y907-D4
Y908-D6
Y909-E6
Y910-E5
Y911-B7
Y912-A7
Y913-F7
Y914-E6
Y937-G6

TRANSISTORS
Q901-B6
Q902-H5

COILS
L901-G7
L902-D7

ICS
IC901-C8

FUSE
F901-F9
F902-C2
F907-D7

FBS
FB901-D8
FB903-B5

RECEPTACLES
RI8-H2
RL19-A3
RL27-F4
RL88-G2

TEST POINTS
TP900
TP904-E9

POWER SUPPLY CIRCUIT BOARD

EP93X604 (19")
EP93X609 (26")

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C903	EP18X81	1000pf, 10%, 1KV, Cer. Disc
C904	EP18X81	1000pf, 10%, 1KV, Cer. Disc
C905	EP18X81	1000pf, 10%, 1KV, Cer. Disc
C906	EP18X81	1000pf, 10%, 1KV, Cer. Disc
C907	EP31X181	330μf, 20%, 200V, Elect.
C908	EP18X283	220pf, 10%, 500V, SHiK, Cer. Disc
C909	EP18X282	51pf, 5%, 500V, Cer. Disc
C910	EP31X169	100μf, 20%, 25V, Elect.
C911	EP31X162	100μf, 20%, 16V, Elect.
C912	EP31X162	100μf, 20%, 16V, Elect.
C913	EP18X284	1500pf, 20%, 500V, SHiK, Cer. Disc
C914	EP25X77	.01μf, 10%, 50V, Polyester
C915	EP31X166	1μf, 20%, 50V, Elect.
C916	EP18X278	330pf, 20%, 1KV, Cer. Disc
C916B	EP18X278	330pf, 20%, 1KV, Cer. Disc
C917	EP25X174	8200pf, 10%, 50V, Polyester
C918	EP25X175	.015μf, 5%, 1KV, Polypropylene
C919	EP25X173	.001μf, 10%, 50V, Polyester
C920	EP18X118	.1μf, +30-80%, 25V, Cer. Disc
C922	EP18X202	220pf, 10%, 50V, SHiK, Cer. Disc
C963	EP31X45	47μf, 20%, 35V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
★R901	EP14X357	1 ohm, 10%, 5W, Wirewound
★R902	EP14X357	1 ohm, 10%, 5W, Wirewound
R903	EP14X105	100K ohm, 5%, 1/2W, Carbon
★R904	EP14X472	THERMISTOR
R905	EP14X268	22 ohm, 5%, 1/2W, Carbon
★R906	EP14X323	6.8K ohm, 5%, 3W, Flame Proof
R907	EP14X354	.39 ohm, 5%, 2W, Metal Oxide
R908	EP14X105	100K ohm, 5%, I/4W, Carbon
★R909	EP14X355	200 ohm, 1%, I/4W, Metal Film
★R910	EP14X408	1.1K ohm, 1%, I/4W, Metal Film
★R911	EP14X405	17.4K ohm, 5%, I/4W, Metal Film
★R913	EP14X406	390K ohm, 5%, I/4W, Carbon
R914	EP14X103	10K ohm, 5%, I/4W, Carbon
R916	EP14X390	110K ohm, 5%, 1/2W, Carbon
★R917	EP14X358	7.5 ohm, 5%, 5W, Wirewound
R918	EP14X356	100 ohm, 5%, 2W, Metal Oxide
R919	EP14X354	.39 ohm, 5%, 2W, Metal Oxide
R920	ES14X71	1K ohm, 5%, I/4W, Carbon
R921	EP14X365	1.8 meg ohm, 5%, 1/2W, Carbon
R923	EP14X365	1.8 meg ohm, 5%, 1/2W, Carbon

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
R912	EP49X466	REG ADJUST-B+ 128V, 250K ohm, 20%

INTEGRATED CIRCUIT

REF. NO.	PART NO.	DESCRIPTION
★IC901	EP84X233	SWITCHING POWER SUPPLY REG

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q901	EP15X230	SWITCHING-NPN, Silicon
Q902	EP15X224	TRIAC BI DIRECTIONAL TRIODE THYRISTOR

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y901	EP57X4	Rectifier
Y902	EP57X4	Rectifier
Y903	EP57X4	Rectifier
Y904	EP57X4	Rectifier
Y905	EP57X4	Rectifier
Y907	EP57X5	Rectifier, 400V
Y908	EU16X11	Silicon
Y909	EU16X11	Silicon
Y910	EP57X5	Rectifier
Y912	EP57X5	Rectifier, 400V
Y913	EP57X5	Rectifier, 400V
Y914	EP16X74	Zener, 1W
Y915	EP16X24	Clamp, Silicon
Y937	EP57X5	Rectifier

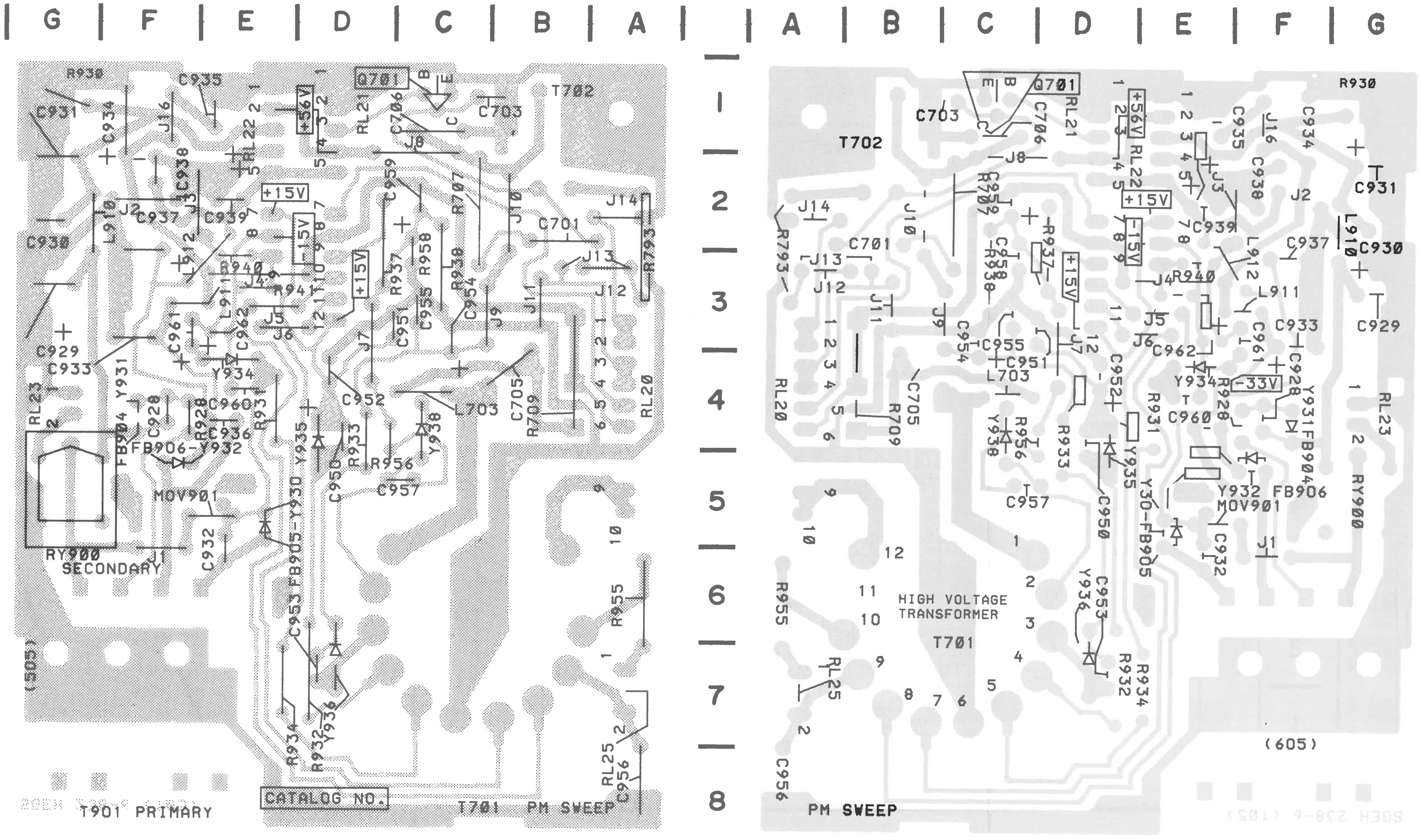
COILS

REF. NO.	PART NO.	DESCRIPTION
★L901	EP36X464	CHOKE-Line Filter
★L902	EP36X465	CHOKE-Filament, 2.2μh

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
FB901	EP12X6	BEAD-Shield
FB903	EP12X2	BEAD-Shield
FB907	EP12X6	BEAD-Shield
	EP3X7	CLIP-Fuse (4 Used)
PG79	EP8X30	CONNECTOR-1 Pin
	★EP66X19	CORD-AC Power, Polarized
★F901	EP10X19	FUSE-4amp, 250V, Fast Acting, Snap-In
★F902	EP10X21	FUSE-2.5amp, 250V, Fast Acting, Snap-In (19")
★F902	EP10X4	FUSE-3amp, 250V, Fast Acting, Snap-In (26")

SWEEP CIRCUIT BOARD LAYOUT (PM-D CHASSIS)



COMPONENT SIDE COPPER SIDE

CAPACITORS
C701-B2
C703-B1
C705-B4
C706-C1
C928-F4
C929-G3
C930-G2
C931-G2
C932-E6
C933-F3
C934-F1
C935-E1
C937-F2
C938-F2
C939-E2
C950-D5
C951-C4
C952-D4
C953-D6
C954-C3
C955-C3
C956-A8
C957-C5
C958-C3
C959-C2
C960-E4
C961-F3
C962-E3

RESISTORS
R707-C2
R709-B4
R793-A2
R928-E4
R930
R931-E4
R932-D7
R933-D4
R934-E7
R937-D2
R938-C3
R940-E3
R955-A6
R956-C4

MOV
MOV901-F5

COILS & TRANSFORMERS
T701-C7
T702-A1
L703-C4
L910-G2
L911-F3
L912-F3

DIODES
Y931-F4
Y934-E4
Y935-D5
Y936-D6
Y938-C4

TRANSISTORS
Q701-C1

JUMPERS
J1-F6
J2-F2
J3-E2
J4-E3
J5-E3
J6-E3
J7-D3
J8-C2
J9-B3
J10-B2
J11-B3
J12-A3
J13-A3
J14-A2
J16-F1

SWEEP CIRCUIT BOARD

EP93X520 (19")
EP93X521 (25")
EP93X603 (26")

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C701	EP25X110	3300pf, 10%, 200V, Mylar
C703	EP18X217	330pf, 10%, 500V, SHiK, Cer. Disc
★C705	EP25X180	.027µf, 5%, 200V, Polyester
C706	EP25X19	.01µf, 10%, 100V, Mylar
C928	EP18X277	220pf, 10%, 1KV, Cer. Disc
C929	EP31X103	1000pf, 20%, 40V, Elect.
C930	EP25X77	.1µf, 20%, 50V, Polyester
C931	EP31X103	1000pf, 20%, 40V, Elect.
C932	EP18X277	220pf, 10%, 1KV, Cer. Disc
C933	EP31X181	330µf, 20%, 200V, Elect.
C934	EP20X8	.1µf, 10%, 200V, Mylar
C935	EP31X153	22µf, 20%, 160V, Elect.
C936	EP18X277	220pf, 10%, 1KV, Cer. Disc
C937	EP31X169	100µf, 20%, 50V, Elect.
C938	EP25X77	.1µf, 20%, 50V, Polyester
C939	EP31X169	100µf, 20%, 50V, Elect.
C940	EP25X184	4700pf, 20%, 125V, Polyester
C941	EP25X184	4700pf, 20%, 125V, Polyester
C950	EP18X279	470pf, 10%, 1KV, Cer. Disc
C951	EP18X259	1000pf, 20%, 500V, SHiK, Cer. Disc
C952	EP31X159	470pf, 20%, 25V, Elect.
C953	EP18X279	470pf, 10%, 1KV, Cer. Disc
C954	EP31X174	47µf, 20%, 100V, Elect.
C955	EP18X259	1000pf, 20%, 500V, SHiK, Cer. Disc
C956	EP25X89	.047µf, 20%, 300V, Mylar
C957	EP18X279	470pf, 10%, 1KV, Cer. Disc
C958	EP18X220	1000pf, 10%, 1KV, Cer. Disc
C959	EP31X155	4.7µf, 20%, 160V, Elect.
C960	EP18X279	470pf, 10%, 1KV, Cer. Disc
C961	EP18X81	1000pf, 20%, 500V, HiK, Cer. Disc
C962	EP31X169	100µf, 20%, 50V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
★MOV901	EP14X353	VARISTOR-"MOV", Metal Oxide
R703	EP14X348	.47 ohm, 5%, 2W, Metal Oxide
★R707	EP14X351	1.5K ohm, 5%, 2W, Metal Oxide
★R709	EP14X318	3 ohm, 10%, 5W, Wirewound
R928	EP14X152	1 ohm, 5%, 2W, Metal Oxide
R929	EP14X365	1.8 meg, 10%, 1/2W, Carbon
★R930	EP14X350	330 ohm, 5%, 2W, Metal Oxide
★R931	ES14X80	2.2 ohm, 5%, 1/2W, Carbon
★R932	EP14X347	1 ohm, 5%, 1W, Metal Oxide
★R933	ES14X80	2.2 ohm, 5%, 1/2W, Carbon
★R934	ES14X79	1 ohm, 5%, 1/2W, Carbon
★R937	ES14X67	100 ohm, 5%, 1/2W, Carbon
R938	EP14X403	220K ohm, 5%, 1/2W, Carbon
R939	EP14X365	1.8 meg, 10%, 1/2W, Carbon
★R940	EP14X456	6.8K ohm, 5%, 1/4W, Carbon
★R941	EP14X456	6.8K ohm, 5%, 1/4W, Carbon
R955	EP14X471	2 ohm, 5%, 2W, Metal Oxide
★R956	ES14X80	2.2 ohm, 5%, 1/2W, Carbon

TRANSISTOR

REF. NO.	PART NO.	DESCRIPTION
Q701	EP15X123	Silicon, NPN

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y930	EP57X11	Rectifier, Silicon
Y931	EP57X5	Rectifier, Silicon, 400V
Y932	EP57X11	Rectifier, Silicon
Y934	EP57X5	Rectifier, Silicon, 400V
Y935	EP16X154	Rectifier, Silicon
Y936	EP57X5	Rectifier, Silicon, 600V
Y938	EP16X154	Rectifier, Silicon

COILS & TRANSFORMERS

REF. NO.	PART NO.	DESCRIPTION
★L703	EP36X463	COIL-Choke
L910	EU36X536	CHOKE-5.6µh, 10%
L911	EU36X536	CHOKE-5.6µh, 10%
L912	EU36X536	CHOKE-5.6µh, 10%
RY900	EP41X132	RELAY
★T701	EP77X67	TRANSFORMER-H.V. (19")
★T701	EP77X68	TRANSFORMER-H.V. (25")
★T701	EP77X69	TRANSFORMER-H.V. (26")

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
	EP60X13	AIR GAP-H.V.T.
	EP8X36	ANODE-C.R.T. Connector
FB900	EP12X6	FERRITE BEAD-For Y934
FB904	EP12X6	FERRITE BEAD-For Y931
FB905/ FB906	EP12X4	FERRITE BEAD
FB907/ FB908	EP3X38	WASHER-For Transistor On Heat Sink

SIGNAL CIRCUIT BOARD LAYOUT (PM-D CHASSIS)

CAPACITORS
C101-F2
C102-F2
C103-F2
C104-E2
C105-E1
C106-E3
C107-C1
C109-D3
C111-D2
C113-E2
C114-D2
C115-D2
C119-G1
C120-D2
C121-E2
C124-D3
C125-E3
C126-D3
C127-D1
C128-D3
C129-G3
C130-C2
C131-F3
C132-E2
C133-F2
C136-B2
C137-E3
C140-E1
C141-G1
C142-C3
C144-C2
C169-A1
C181-D3
C182-D4
C183-C4
C185-D4
C186-D3
C190-D4
C193-C4
C195-D4
C196-E4
C197-C4
C198-D4
C199-C4
C200-G3
C202-F4
C204-D9
C208-E6
C210-E6
C218-D7
C222-D9
C234-D7
C236-C5
C250-D7
C256-E6
C299-E8
C300-E6
C302-F6
C308-E7
C310-F5
C312-F7
C316-F7
C320-F8
C321-D8
C322-F8
C326-E8
C330-E7
C334-E8
C336-G5
C350-E9
C352-F9
C354-E9
C371-G6
C372-G8
C373-D7
C374-F5
C375-G5
C377-G6
C378-F8
C501-C7
C503-C7
C505-C8
C506-C7
C507-D8
C509-B7
C512-C5
C513-C7
C515-C6
C521-C8
C523-C7
C525-B4
C581-C7
C601-B7
C603-A8
C605-B7
C607-B6
C609-A6
C612-B6
C613-A4
C614-A3
C615-B5
C617-A5
C619-B5
C621-B5
C623-A7
C970-A1
C971-B2
C990-A9
C991-B9
C993-A8
C994-A8

RESISTORS
R102-F2
R103-F1
R104-F2
R105-F1
R108-F2
R109-D1
R111-C1
R112-B1
R113-B2
R114-C2
R115-D2
R116-E1
R117-D3
R118-E2
R119-G1
R121-D1
R122-D3
R123-D3
R124-E1
R125-G1
R126-G1
R128-D1
R129-E1
R130-D1
R131-F1
R133-F1
R135-F2
R139-B1
R141-B1
R142-B3
R144-B2
R146-C2
R150-B2
R152-C3
R154-C3
R156-B3
R158-F5
R160-B3
R161-A1
R162-A1
R164-A2
R166-F5
R174-D3
R179-F5
R180-C3
R181-E4
R182-D4
R183-C4
R186-E4
R188-E4
R194-C4
R196-D3
R197-E4
R200-F3
R202-F4
R209-C9
R210-C9
R211-D6
R212-D6
R213-D5
R215-D6
R218-F5
R221-D5
R222-D6
R224-E5
R226-D7
R227-E6
R229-E6
R230-E6
R232-C9
R233-D8
R234-C9
R237-D9
R239-D9
R240-C9
R250-D7
R252-D7
R254-D6
R258-D6
R262-C5
R300-F6
R303-D9
R307-G7
R310-F7
R312-F7
R313-F7
R316-F7
R317-D8
R318-D8
R319-E8
R320-E7
R322-E8
R326-F8
R328-F8
R330-F9
R336-E8
R338-F8
R350-E8
R352-D8
R356-E8
R371-G7
R372-G7
R377-G8
R378-E8
R379-D9
R380-E8
R381-E5
R382-E9
R384-E9
R386-F9
R388-E9
R503-A6
R505-C8
R507-C8
R508-C7
R511-C7
R513-D8
R515-C6
R516-C7
R518-C6
R519-C7
R521-B6
R523-B3
R531-B7
R537-C8
R539-C8
R541-C8
R601-B7
R603-B8
R605-B7
R609-A6
R610-A6
R611-A7
R612-A7
R613-B7
R615-A7
R617-A7
R619-A7
R621-B5
R623-A6
R627-A6
R631-A9
R633-B6
R635-B6
R637-A6
R641-A2
R643-A3
R645-A4
R647-A5
R649-A5
R651-B5
R653-C5
R655-A5
R657-A5
R950-A1
R935-B9
R935A-B9
R936-A8
R990-A9
R990A-A9
R996-A8
R998-B8

JUMPERS
J1-G7
J2-E4
J3-D7
J3-G8
J4-E2
J6-D2
J7-C2
J8-E9
J8-C8
J9-E5
J10-E5
J11-F5
J12-C3
J15-G3
J16-G2
J17-D4
J18-C5
J19-C4
J21-C5
J22-C5
J23-D5
J25-B3
J26-G6
J27-F5
J28-E5
J30-C3
J31-E2
J32-C5
J33-E5
J35-F6
J35-C6
J38-G8
J40-D8
J41-D8
J42-B6
J43-C6
J44-C6
J45-C6
J46-A3
J47-A4
J48-E3
J49-E3
J50-E3
J51-F4
J52-G4
J53-C5
J54-B5
J56-D7
J57-A8
J58-E6
J59-E6
J60-B4
J61-C5
J62-G7
J64-G7
J65-B8
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J68-F8
J69-E8
J70-G9
J71-D7
J72-G8
J73-F5
J74-F7
J75-F8
J77-F7
J78-G5
J79-D7
J80-F8
J82-F8
J83-F8
J84-G5
J85-E2
J90-G8
J91-G7
J95-B8
J96-B3
J97-E4
J98-B2
J99-B8
J100-B7

DIODES
Y187-D4
Y189-E4
Y190-B1
Y202-D6
Y204-C9
Y206-D6
Y208-C9
Y218-C9
Y299-G3
Y300-G7
Y350-D9
Y352-D9
Y354-D9
Y503-C6
Y504-B9
Y603-A4
Y605-A4
Y607-A3
Y609-A2
Y990-C8
Y992-A8
Y933-A4
Y991-B8

TRANSISTORS
Q105-F1
Q107-C1
Q110-C2
Q112-C2
Q114-B2
Q116-B3
Q118-A1
Q200-D6
Q202-D6
Q204-G4
Q208-G4
Q210-C9
Q214-F9
Q216-E9
Q218-C9
Q300-G8
Q601-A2
Q603-A4

CRYSTAL
X300-F7

COILS
L102-F2
L104-C1
L105-C1
L106-D2
L107-C2
L108-D2
L112-E3
L113-E3
L180-C3
L190-C4
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L300-F6
L320-E8
L322-D8

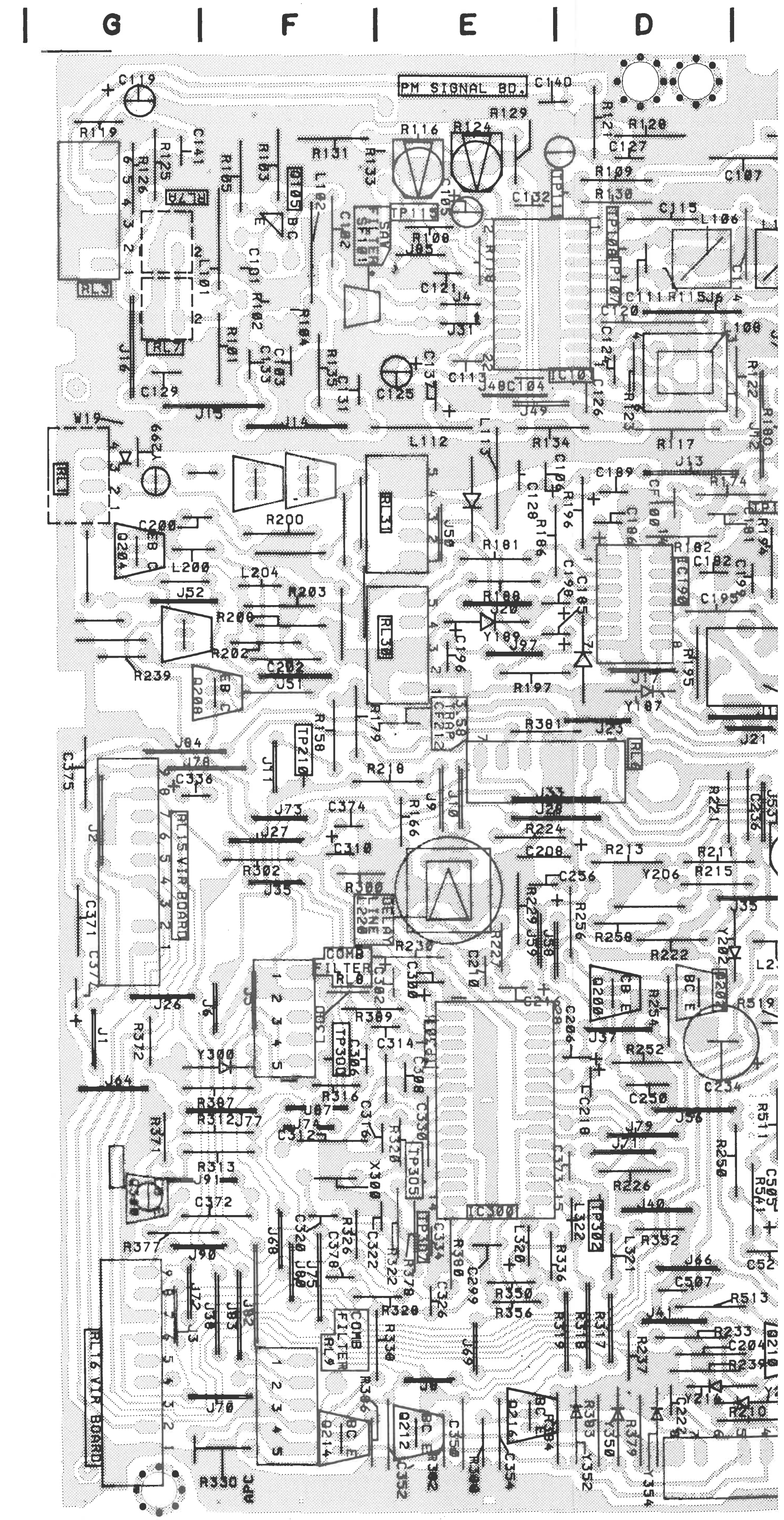
INTEGRATED CIRCUITS
IC101-E2
IC300-E7
IC501-B7
IC602-A1

RECEPTACLES
RL1-G3
RL2-C3
RL3-G2
RL4-C9
RL6-E5
RL7-G2
RL7A-G2
RL8-F6
RL9-F9
RL10-B4
RL11-A6
RL15-G5
RL16-G9
RL30-F4
RL31-F3

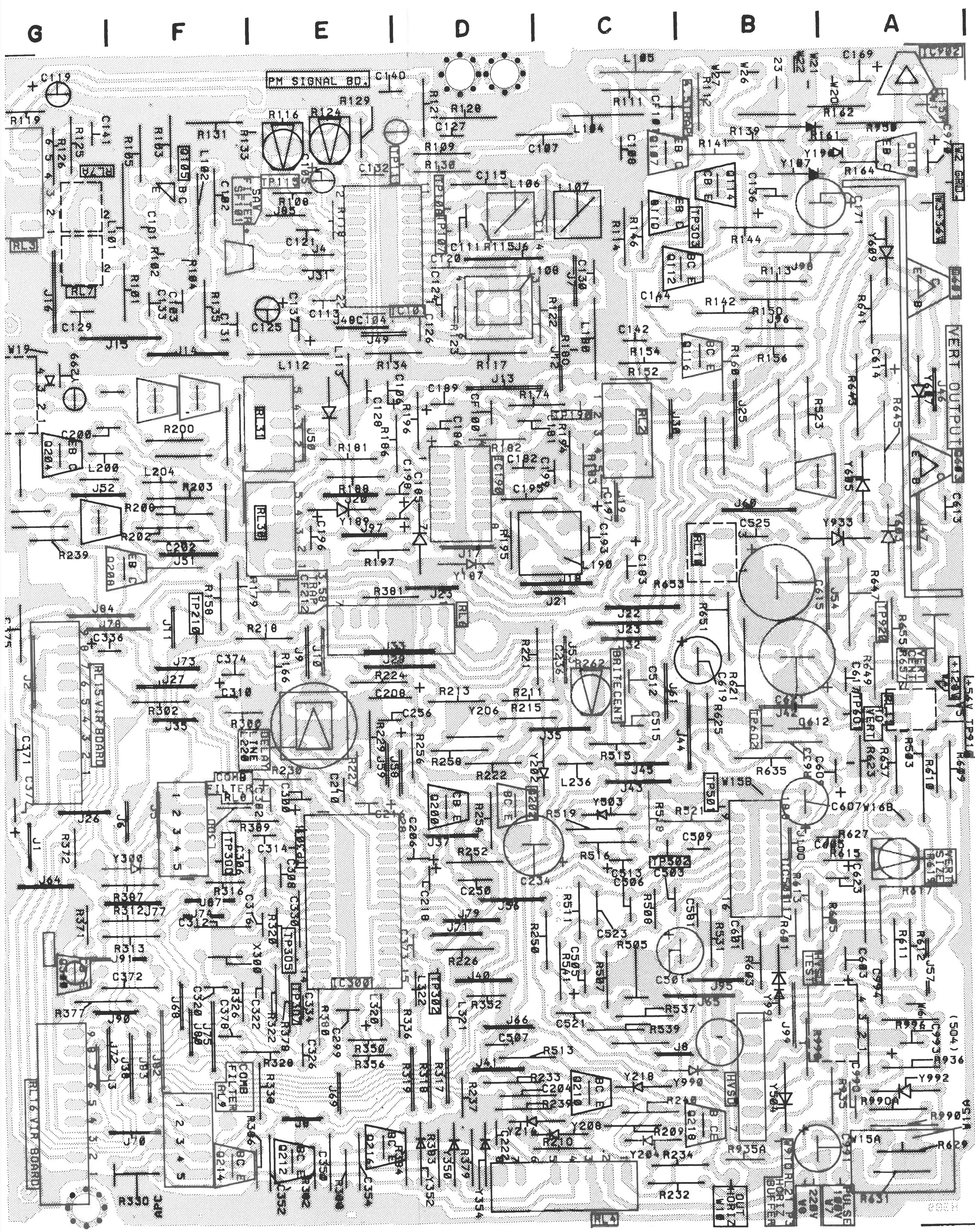
TEST POINTS
TP107-D2
TP108-D2
TP111-E2
TP115-F2
TP190-C3
TP210-F5
TP300-F7
TP301-E6
TP302-D8
TP303-B2
TP305-E7
TP307-F7
TP501-B6
TP502-C7
TP602-B6
TP920-A5

CERAMIC FILTERS
CF100-D3
CF101-C1
FC212-E5

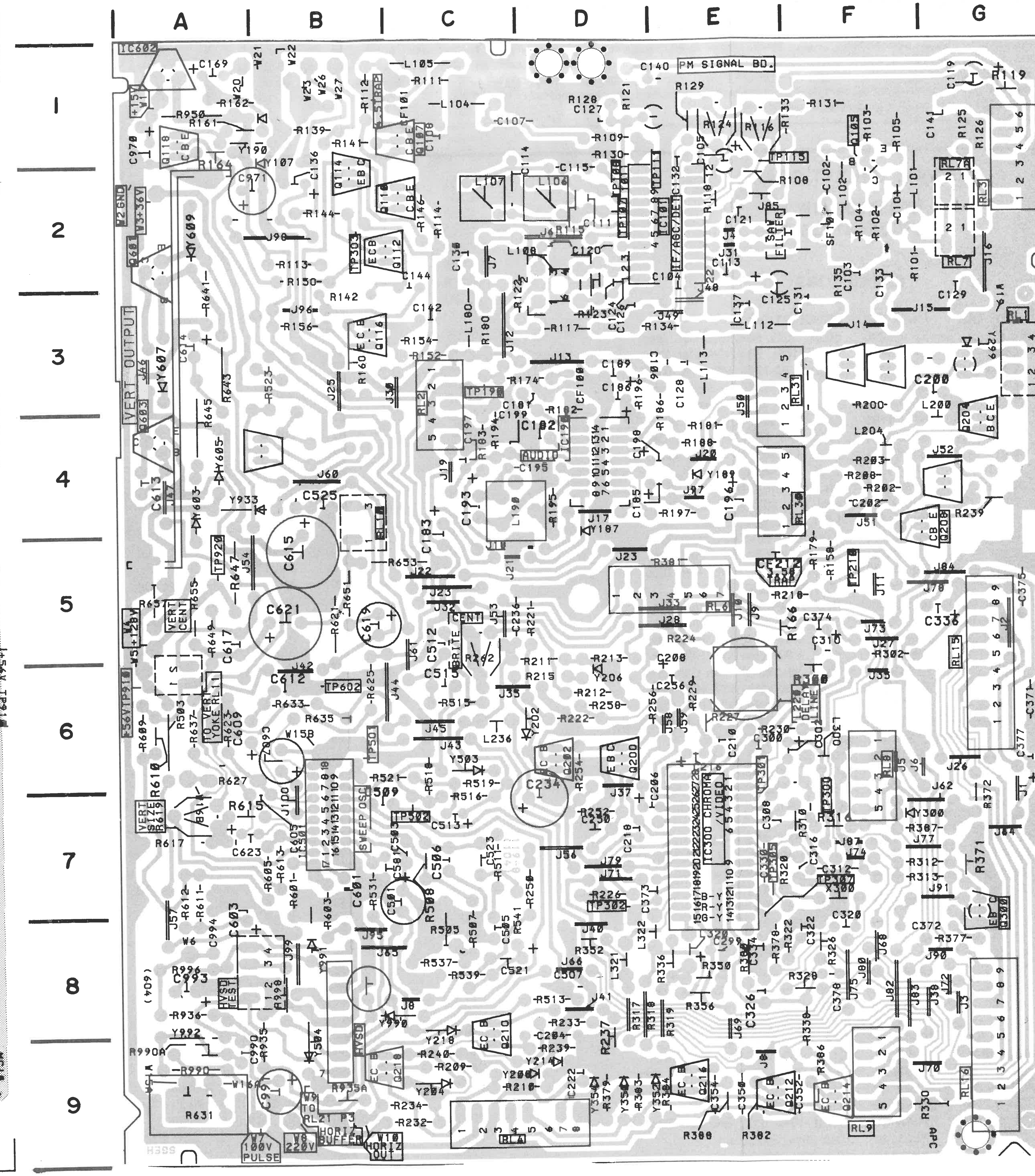
SF's
SF101-F2



COMPONENT SI



COMPONENT SIDE



COPPER SIDE

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IMPORTANT SAFETY NOTICE

Product safety should be considered when component replacement is made in any area of a receiver. The (★) beside a part in the parts list and the shaded areas of the schematic diagram designates components in which safety can be of special significance. It is particularly recommended that exact cataloged parts be used for replacement of components which are designated by a (★) in the parts list and the shaded areas on the schematic diagram. Use of substitute replacement parts which do not have the same safety characteristics as recommended in factory service information may create Shock, Fire or other hazards, or excessive X-Radiation.

SIGNAL CIRCUIT BOARD

EP93X600 (19")
EP93X601 (26")

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C101	EP18X205	560pf, 10%, 50V, HiK, Cer. Disc
C102	EP18X205	560pf, 10%, 50V, HiK, Cer. Disc
C103	EP22X32	.01μf, +80-20%, 50V, HiK, Cer.
C104	EP18X259	1000pf, 10%, 500V, SHiK, Cer. Disc
C105	EP25X187	.15μf, 20%, 50V, Polyester
C107	EP18X191	68pf, 5%, 50V, NPO, Cer. Disc
C108	EP18X194	100pf, 5%, 50V, N750, Cer. Disc
C111	EP18X111	68pf, 5%, 50V, NPO, Cer. Disc
C113	EP22X32	.01μf, +80-20%, 50V, HiK, Cer.
C114	EP18X191	68pf, 5%, 50V, NPO, Cer. Disc
C115	EP18X101	13pf, 5%, 50V, NPO, Cer. Disc
C119	EP31X179	4.7μf, 20%, 35V, Elect.
C120	EP18X195	120pf, 5%, 50V, NPO, Cer. Disc
C121	EP22X32	.01μf, +80-20%, 50V, HiK, Cer.
C124	EP18X186	22pf, 10%, 50V, NPO, Cer. Disc
C125	EP31X45	47μf, 20%, 25V, Elect.
C126	EP22X32	.01μf, +80-20%, 50V, HiK, Cer.
C127	EP22X32	.01μf, +80-20%, 50V, HiK, Cer.
C128	EP22X32	.01μf, +80-20%, 50V, HiK, Cer.
C129	EP22X32	.01μf, +80-20%, 50V, HiK, Cer.
C130	EP18X194	100pf, 5%, 50V, N750, Cer. Disc
C131	EP22X32	.01μf, +80-20%, 50V, HiK, Cer.
C132	EP22X32	.01μf, +80-20%, 50V, HiK, Cer.
C133	EP22X32	.01μf, +80-20%, 50V, HiK, Cer. Disc
C136	EP31X188	220μf, 20%, 16V, Elect.
C137	EP31X149	10μf, 20%, 35V, Elect.
C140	EP18X259	1000pf, 10%, 500V, SHiK, Cer.
C141	EP18X259	1000pf, 10%, 500V, SHiK, Cer.
C142	EP18X262	.01μf, 10%, 50V, SHiK, Cer. Disc
C144	EP31X178	1μf, 10%, 16V, Elect.
C169	EP31X168	220μf, 20%, 10V, Elect.
C181	EP22X32	.01μf, +80-20%, 50V, HiK, Cer. Disc
C182	EP25X183	.022μf, 10%, 50V, Polyester
C183	EP31X166	1μf, 20%, 50V, Elect.
C185	EP31X149	10μf, 20%, 35V, Elect.
C186	EP31X149	10μf, 20%, 35V, Elect.
C187	EP31X149	10μf, 20%, 35V, Elect.
C189	EP31X149	10μf, 20%, 35V, Elect.
C193	EP18X113	150pf, 5%, 50V, NPO, Cer. Disc
C195	EP18X182	5.6pf, 10%, 50V, NPO, Cer. Disc
C196	EP25X166	.039μf, 10%, 50V, Polyester
C197	EP31X170	4.7μf, 20%, 35V, Elect.
C198	EP31X149	10μf, 20%, 35V, Elect.
C199	EP22X32	.01μf, +80-20%, 50V, HiK, Cer.
C200	EP18X274	1500pf, 10%, 50V, SHiK, Cer. Disc
C202	EP18X169	.01μf, 30%, 25V, HiK, Cer. Disc
C206	EP31X172	22μf, 20%, 25V, Elect.
C208	EP18X167	.047μf, 10%, 50V, HiK, Cer. Disc
C216	EP31X149	10μf, 20%, 35V, Elect.
C218	EP31X149	10μf, 20%, 35V, Elect.
C222	EP22X32	.01μf, +80-20%, 50V, HiK, Cer.
C231	EP18X180	820pf, 10%, 50V, Cer. Disc
C234	EP31X149	10μf, 20%, 35V, Elect.
C236	EP18X169	.01μf, 30%, 25V, HiK, Cer. Disc
C242	EP22X5	680pf, 10%, 500V, Cer. Disc
C250	EP25X77	.1μf, 20%, 50V, Polyester
C256	EP31X172	22μf, 20%, 25V, Elect.
C299	EP31X188	220μf, 20%, 16V, Elect.
C300	EP31X175	33μf, +50-20%, 10V, Elect.
C302	EP31X178	1μf, 10%, 16V, Elect.
C306	EP18X295	82pf, 5%, 50V, N220, Cer. Disc
C308	EP22X32	.01μf, 10%, 50V, HiK, Cer. Disc
C310	EP25X87	.047μf, 20%, 50V, Polyester
C314	EP18X277	220pf, 20%, 1KV, HiK, Cer. Disc
C316	EP18X294	39pf, 5%, 50V, NPO, Cer. Disc
C320	ES18X81	30pf, 5%, 500V, NPO, Cer. Disc
C322	EP18X32	36pf, 5%, 500V, NPO, Cer. Disc
C326	EP25X124	.033μf, 20%, 50V, Polyester
C328	EP31X149	10μf, 20%, 35V, Elect.
C330	EP18X32	36pf, 5%, 50V, NPO, Cer. Disc
C334	EP18X194	100pf, 5%, 50V, N750, Cer, Disc
C336	EP31X166	1μf, 20%, 50V, Elect.
C350	EP18X203	270pf, 10%, 50V, HiK, Cer. Disc
C352	EP18X203	270pf, 10%, 50V, HiK, Cer. Disc
C354	EP18X203	270pf, 10%, 50V, HiK, Cer. Disc
C371	EP18X197	1000pf, 10%, 50V, HiK, Cer. Disc
C372	EP18X154	200pf, 10%, 50V, HiK, Cer. Disc
C373	EP22X32	.01μf, 20%, 50V, HiK, Cer. Disc
C374	EP31X149	10μf, 20%, 35V, Elect.
C375	EP18X197	1000pf, 10%, 50V, HiK, Cer. Disc
C377	EP31X166	1μf, 20%, 50V, Elect.
C501	EP31X45	47μf, 20%, 25V, Elect.
C503	EP25X149	5600pf, 5%, 100V, Polyropylene
C505	EP31X178	1μf, 10%, 16V, Elect.
C506	EP25X150	6800pf, 10%, 50V, Polyester
C507	EP25X87	.047μf, 10%, 50V, Polyester
C509	EP25X80	.015μf, 10%, 50V, Polyester
C513	EP31X149	10μf, 20%, 35V, Elect.
C515	EP31X178	1μf, 10%, 16V, Elect.
C521	EP25X87	.047μf, 10%, 50V, Polyester
C523	EP25X77	.1μf, 20%, 50V, Polyester
C525	EP18X197	1000pf, 10%, 50V, SHiK, Cer. Disc
C581	EP18X300	330pf, 10%, 1KV, HiK, Cer. Disc
C601	EP25X171	.033μf, 10%, 50V, Polyester
C603	EP31X149	10μf, 20%, 35V, Elect.
C605	EP18X229	6800pf, 10%, 50V, SHiK, Cer. Disc
C607	EP31X188	220μf, 20%, 25V, Elect.
C609	EP31X166	1μf, 20%, 50V, Elect.
C612	EP25X183	.022μf, 10%, 50V, Polyester
C613	EP18X286	180pf, 5%, 500V, NPO, Cer. Disc
C614	EP31X194	22μf, 20%, 35V, Elect.
C615	EP31X94	2.7μf, 20%, 160V, Elect.
C617	EP18X264	4700pf, 20%, 500V, HiK, Cer. Disc
C619	EP31X159	470μf, 20%, 10V, Elect.
C621	EP31X193	100μf, 20%, 50V, Elect.
C623	EP31X178	1μf, 10%, 35V, Tantalum
C970	EP31X149	10μf, 20%, 35V, Elect.
C971	EP31X159	470μf, 20%, 16V, Elect.
C990	EP18X279	470pf, 20%, 1KV, HiK, Cer. Disc
C991	EP31X156	10μf, +50-20%, 180V, Elect.
C993	EP31X179	4.7μf, 20%, 35V, Elect.
C994	EP25X11	8200pf, 10%, 100V, Polyester

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
J92	EP14X416	510 ohm, 5%, 1/4W, Carbon
J93	EP14X416	510 ohm, 5%, 1/4W, Carbon
J94	EP14X416	510 ohm, 5%, 1/4W, Carbon
R101	ES14X70	100 ohm, 5%, 1/4W, Carbon
R102	EP14X379	5.6K ohm, 5%, 1/4W, Carbon
R103	ES14X62	1.5K ohm, 5%, 1/4W, Carbon
R104	ES14X57	390 ohm, 5%, 1/4W, Carbon
R105	EP14X268	22 ohm, 5%, 1/4W, Carbon
R108	EP14X97	270K ohm, 5%, 1/8W, Carbon
R109	EP14X318	220 ohm, 5%, 1/4W, Carbon
R112	ES14X58	470 ohm, 5%, 1/4W, Carbon
R113	ES14X57	390 ohm, 5%, 1/4W, Carbon
R114	ES14X58	470 ohm, 5%, 1/4W, Carbon
R115	EP14X103	10K ohm, 5%, 1/8W, Carbon
R117	EP14X318	220 ohm, 5%, 1/4W, Carbon
R118	EP14X370	9.1K ohm, 5%, 1/8W, Carbon
R119	EP14X119	68K ohm, 5%, 1/8W, Carbon
R121	EP14X131	47K ohm, 5%, 1/4W, Carbon
R122	ES14X51	47 ohm, 5%, 1/4W, Carbon
R123	EP14X304	2.7K ohm, 5%, 1/8W, Carbon
R125	EP14X243	2.2K ohm, 5%, 1/4W, Carbon
R126	EP14X411	2.4K ohm, 5%, 1/4W, Carbon
R128	EP14X185	120K ohm, 5%, 1/4W, Carbon
R129	EP14X385	750 ohm, 5%, 1/8W, Carbon
R130	ES14X62	1.5K ohm, 5%, 1/4W, Carbon
R131	EP14X414	18K ohm, 5%, 1/4W, Carbon
R133	ES14X71	1K ohm, 5%, 1/4W, Carbon
R134	EP14X378	120 ohm, 5%, 1/4W, Carbon
R135	EP14X318	220 ohm, 5%, 1/4W, Carbon
R139	EP14X103	10K ohm, 5%, 1/4W, Carbon
R141	EP14X379	5.6K ohm, 5%, 1/4W, Carbon
R142	EP14X103	10K ohm, 5%, 1/4W, Carbon
R144	EP14X372	24K ohm, 5%, 1/4W, Carbon
R146	EP14X467	910 ohm, 5%, 1/4W, Carbon
R150	ES14X59	560 ohm, 5%, 1/4W, Carbon
R152	EP14X103	10K ohm, 5%, 1/4W, Carbon
R154	EP14X136	33K ohm, 5%, 1/4W, Carbon
R156	ES14X59	560 ohm, 5%, 1/4W, Carbon
R160	EP14X369	12 ohm, 5%, 1/4W, Carbon
R161	EP14X468	12 ohm, 5%, 1/8W, Carbon
R162	ES14X69	56 ohm, 5%, 1/4W, Carbon
R164	EP14X120	150 ohm, 5%, 1/8W, Carbon
R174	ES14X71	1K ohm, 5%, 1/4W, Carbon
R180	EP14X431	1.3K ohm, 5%, 1/4W, Carbon
R181	EP14X456	6.8K ohm, 5%, 1/4W, Carbon
R182	ES14X71	1K ohm, 5%, 1/4W, Carbon
R183	ES14X71	1K ohm, 5%, 1/4W, Carbon
R186	ES14X61	820 ohm, 5%, 1/4W, Carbon
R188	EP14X133	470K ohm, 5%, 1/4W, Carbon
R195	EP14X379	5.6K ohm, 5%, 1/4W, Carbon
R196	EP14X409	10 ohm, 5%, 1/4W, Carbon
R197	EP14X424	8.2K ohm, 5%, 1/4W, Carbon
R200	EP14X378	120 ohm, 5%, 1/4W, Carbon
R202	EP14X467	910 ohm, 5%, 1/4W, Carbon
R203	EP14X411	2.4K ohm, 5%, 1/4W, Carbon
R208	EP14X416	510 ohm, 5%, 1/4W, Carbon
R209	EP14X409	10 ohm, 5%, 1/4W, Carbon
R210	ES14X59	560 ohm, 5%, 1/4W, Carbon
R211	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
R212	EP14X413	12K ohm, 5%, 1/4W, Carbon
R213	EP14X415	82K ohm, 5%, 1/4W, Carbon
R215	ES14X64	2K ohm, 5%, 1/4W, Carbon
R218	ES14X60	680 ohm, 5%, 1/4W, Carbon
R221	EP14X293	680K ohm, 5%, 1/4W, Carbon
R222	EP14X415	82K ohm, 5%, 1/4W, Carbon
R224	EP14X456	6.8K ohm, 5%, 1/4W
R226	EP14X103	10K ohm, 5%, 1/4W,
R227	EP14X420	270 ohm, 5%, 1/8W,
R229	EP14X289	430 ohm, 5%, 1/4W,
R230	ES14X70	100 ohm, 5%, 1/4W,
R231	ES14X70	100 ohm, 5%, 1/4W,
R232	EP14X381	3K ohm, 5%, 1/4W,
R233	EP14X381	3K ohm, 5%, 1/4W,
R234	ES14X65	4.7K ohm, 5%, 1/4W
R237	EP14X420	270 ohm, 5%, 1/8W,
R238	EP14X470	620 ohm, 5%, 1/8W,
R239	EP14X410	240 ohm, 5%, 1/4W,
R240	EP14X408	1.1K ohm, 5%, 1/4W
R242	EP14X444	1.2K ohm, 5%, 1/8W,
R250	ES14X62	1.5K ohm, 5%, 1/4W,
R252	EP14X414	18K ohm, 5%, 1/4W,
R254	EP14X105	100K ohm, 5%, 1/4W
R256	ES14X65	4.7K ohm, 5%, 1/4W,
R258	EP14X398	15K ohm, 5%, 1/4W,
R300	EP14X374	36K ohm, 5%, 1/8W,
R302	EP14X398	15K ohm, 5%, 1/4W,
R312	EP14X400	2.7K ohm, 5%, 1/4W,
R313	EP14X419	30K ohm, 5%, 1/4W,
R316	EP14X469	330 ohm, 5%, 1/8W,
R317	EP14X416	510 ohm, 5%, 1/4W,
R318	EP14X416	510 ohm, 5%, 1/4W,
R319	EP14X416	510 ohm, 5%, 1/4W,
R320	EP14X444	1.2K ohm, 5%, 1/8W,
R322	ES14X58	470 ohm, 5%, 1/4W,
R326	EP14X284	1K ohm, 5%, 1/8W, C
R328	EP14X284	1K ohm, 5%, 1/8W, C
R336	EP14X418	5.1K ohm, 5%, 1/8W,
R338	EP14X105	100K ohm, 5%, 1/4W
R350	EP14X417	3.6K ohm, 5%, 1/8W,
R352	EP14X417	3.6K ohm, 5%, 1/8W,
R356	EP14X417	3.6K ohm, 5%, 1/8W,
R372	ES14X70	100 ohm, 5%, 1/8W,
R377	EP14X400	2.7K ohm, 5%, 1/4W,
R378	EP14X329	200 ohm, 5%, 1/4W,
R379	ES14X61	820 ohm, 5%, 1/4W,
R380	ES14X65	4.7K ohm, 5%, 1/4W,
R381	EP14X379	5.6K ohm, 5%, 1/4W,
R382	EP14X284	10 ohm, 5%, 1/8W, C
R383	ES14X61	820 ohm, 5%, 1/4W,
R384	ES14X61	820 ohm, 5%, 1/4W,
R386	EP14X284	10 ohm, 5%, 1/8W, C
R387	EP14X418	5.1K ohm, 5%, 1/4W,
R388	EP14X284	10 ohm, 5%, 1/8W, C
R389	EP14X382	820K ohm, 5%, 1/8W,
★R503	EP14X351	1.5K ohm, 5%, 2W, M
R507	EP14X376	11K ohm, 5%, 1/4W,
R508	EP14X119	68K ohm, 5%, 1/8W,
R511	EP14X103	10K ohm, 5%, 1/4W,
R513	EP14X398	15K ohm, 5%, 1/4W,
R516	EP14X453	150K ohm, 5%, 1/4W,
R518	EP14X425	240K ohm, 5%, 1/4W,
R519	EP14X422	62K ohm, 5%, 1/4W,
R521	ES14X56	33 ohm, 5%, 1/4W, C
R523	ES14X57	390 ohm, 5%, 1/4W,
R531	ES14X56	33 ohm, 5%, 1/4W, C
R537	EP14X421	4.3K ohm, 5%, 1/4W,
R539	EP14X379	5.6K ohm, 5%, 1/4W,
R541	EP14X386	51K ohm, 5%, 1/4W,
R601	EP14X398	15K ohm, 5%, 1/4W,
R603	ES14X51	47 ohm, 5%, 1/4W, C
R605	EP14X103	10K ohm, 5%, 1/4W,
R609	EP14X398	15K ohm, 5%, 1/4W,
R610	EP14X439	43K ohm, 5%, 1/4W,

REF. NO.	PART NO.	DESCRIPTION
R224	EP14X456	6.8K ohm, 5%, 1/4W, Carbon
R226	EP14X103	10K ohm, 5%, 1/4W, Carbon
R227	EP14X420	270 ohm, 5%, 1/8W, Carbon
R229	EP14X289	430 ohm, 5%, 1/4W, Carbon
R230	ES14X70	100 ohm, 5%, 1/4W, Carbon
R231	ES14X70	100 ohm, 5%, 1/4W, Carbon
R232	EP14X381	3K ohm, 5%, 1/4W, Carbon
R233	EP14X381	3K ohm, 5%, 1/4W, Carbon
R234	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
R237	EP14X420	270 ohm, 5%, 1/8W, Carbon
R238	EP14X470	620 ohm, 5%, 1/8W, Carbon
R239	EP14X410	240 ohm, 5%, 1/4W, Carbon
R240	EP14X408	1.1K ohm, 5%, 1/4W, Carbon
R242	EP14X444	1.2K ohm, 5%, 1/8W, Carbon
R250	ES14X62	1.5K ohm, 5%, 1/4W, Carbon
R252	EP14X414	18K ohm, 5%, 1/4W, Carbon
R254	EP14X105	100K ohm, 5%, 1/4W, Carbon
R256	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
R258	EP14X398	15K ohm, 5%, 1/4W, Carbon
R300	EP14X374	36K ohm, 5%, 1/8W, Carbon
R302	EP14X398	15K ohm, 5%, 1/4W, Carbon
R312	EP14X400	2.7K ohm, 5%, 1/4W, Carbon
R313	EP14X419	30K ohm, 5%, 1/4W, Carbon
R316	EP14X469	330 ohm, 5%, 1/8W, Carbon
R317	EP14X416	510 ohm, 5%, 1/4W, Carbon
R318	EP14X416	510 ohm, 5%, 1/4W, Carbon
R319	EP14X416	510 ohm, 5%, 1/4W, Carbon
R320	EP14X444	1.2K ohm, 5%, 1/8W, Carbon
R322	ES14X58	470 ohm, 5%, 1/4W, Carbon
R326	EP14X284	1K ohm, 5%, 1/8W, Carbon
R328	EP14X284	1K ohm, 5%, 1/8W, Carbon
R336	EP14X418	5.1K ohm, 5%, 1/8W, Carbon
R338	EP14X105	100K ohm, 5%, 1/4W, Carbon
R350	EP14X417	3.6K ohm, 5%, 1/8W, Carbon
R352	EP14X417	3.6K ohm, 5%, 1/8W, Carbon
R356	EP14X417	3.6K ohm, 5%, 1/8W, Carbon
R372	ES14X70	100 ohm, 5%, 1/8W, Carbon
R377	EP14X400	2.7K ohm, 5%, 1/4W, Carbon
R378	EP14X329	200 ohm, 5%, 1/4W, Carbon
R379	ES14X61	820 ohm, 5%, 1/4W, Carbon
R380	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
R381	EP14X379	5.6K ohm, 5%, 1/4W, Carbon
R382	EP14X284	10 ohm, 5%, 1/8W, Carbon
R383	ES14X61	820 ohm, 5%, 1/4W, Carbon
R384	ES14X61	820 ohm, 5%, 1/4W, Carbon
R386	EP14X284	10 ohm, 5%, 1/8W, Carbon
R387	EP14X418	5.1K ohm, 5%, 1/4W, Carbon
R388	EP14X284	10 ohm, 5%, 1/8W, Carbon
R389	EP14X382	820K ohm, 5%, 1/8W, Carbon
★R503	EP14X351	1.5K ohm, 5%, 2W, Metal Oxide
R507	EP14X376	11K ohm, 5%, 1/4W, Carbon
R508	EP14X119	68K ohm, 5%, 1/8W, Carbon
R511	EP14X103	10K ohm, 5%, 1/4W, Carbon
R513	EP14X398	15K ohm, 5%, 1/4W, Carbon
R516	EP14X453	150K ohm, 5%, 1/4W, Carbon
R518	EP14X425	240K ohm, 5%, 1/4W, Carbon
R519	EP14X422	62K ohm, 5%, 1/4W, Carbon
R521	ES14X56	33 ohm, 5%, 1/4W, Carbon
R523	ES14X57	390 ohm, 5%, 1/4W, Carbon
R531	ES14X56	33 ohm, 5%, 1/4W, Carbon
R537	EP14X421	4.3K ohm, 5%, 1/4W, Carbon
R539	EP14X379	5.6K ohm, 5%, 1/4W, Carbon
R541	EP14X386	51K ohm, 5%, 1/4W, Carbon
R601	EP14X398	15K ohm, 5%, 1/4W, Carbon
R603	ES14X51	47 ohm, 5%, 1/4W, Carbon
R605	EP14X103	10K ohm, 5%, 1/4W, Carbon
R609	EP14X398	15K ohm, 5%, 1/4W, Carbon
R610	EP14X439	43K ohm, 5%, 1/4W, Carbon (25" Only)
R611	EP14X289	430 ohm, 5%, 1/4W, Carbon (25" Only)
R612	ES14X60	680 ohm, 5%, 1/4W, Carbon
R613	EP14X367	2K ohm, 5%, 1/4W, Carbon
R615	EP14X285	20K ohm, 5%, 1/8W, Carbon
R617	ES14X70	100 ohm, 5%, 1/4W, Carbon
R621	EP14X388	6.8 ohm, 5%, 1W, Metal Oxide
R623	EP14X370	9.1K ohm, 5%, 1/4W, Carbon
R625	EP14X318	220 ohm, 5%, 1/4W, Carbon
R627	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
R631	EP14X456	6.8K ohm, 5%, 1/4W, Carbon
R633	EP14X424	8.2K ohm, 5%, 1/4W, Carbon
R635	EP14X220	180 ohm, 5%, 1/4W, Carbon
R637	ES14X70	100 ohm, 5%, 1/4W, Carbon
R641	EP14X409	10 ohm, 5%, 1/2W, Carbon
R643	EP14X102	560 ohm, 5%, 1W, Metal Oxide
★R645	EP14X102	560 ohm, 5%, 1W, Metal Oxide
★R647	EP14X230	1.5K ohm 5%, 3W, Flame Proof
R649	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
R651	EP14X369	12 ohm, 5%, 1/2W, Carbon
R653	EP14X346	180 ohm, 5%, 2W, Metal Oxide
R655	ES14X62	1.5K ohm, 5%, 1W, Metal Oxide
R935	EP14X361	1.8K ohm, 5%, 1/4W, Carbon
R935A	EP14X398	15K ohm, 5%, 1/4W, Carbon
R936	ES14X71	1K ohm, 5%, 1/4W, Carbon
R950	EP14X280	15 ohm, 5%, 2W, Metal Oxide
★R990	EP14X220	180 ohm, 5%, 1/2W, Carbon
R990A	EP14X299	68 ohm, 5%, 1/2W, Carbon
R996	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
R998	EP14X380	27K ohm, 5%, 1/4W, Carbon

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
R116	EP49X463	RF/AGC-5K ohm, 20%
R124	EP49X463	IF/AGC-5K ohm, 20%
R262	EP49X463	BRIGHTNESS CENTER-5K ohm, 20%
R330	EP49X465	APC-50K ohm, 20%
R505	EP49X463	HORIZ HOLD-5K ohm, 20%
R619	EP49X466	250 ohm, 20%
R629	EP49X467	VERTICAL HOLD-10K ohm, 20%
R657	EP49X465	VERTICAL CENTERING-50K ohm, 20%

INTERGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
	★EP62X167	HVSD-Thick Film
IC101	EP84X213	IF/AGC/DET
IC190	EP84X216	AUDIO DET/AMP
IC300	EP84X221	CHROMA/VIDEO
IC501	EP84X215	SWEEP OSC.
IC902	EP84X217	3 TERMINAL VOL. REG.

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q105	EP15X104	PRE AMP-Hi Freq
Q107	EP15X87	VIDEO KILLER-NPN, Silicon
Q110	EP15X87	VIDEO BUFFER-NPN, Silicon
Q114	EP15X87	VIDEO BUFFER-NPN, Silicon
Q116	EP15X48	VIDEO ISO.-PNP, Silicon
Q118	EP15X87	VIDEO BUFFER-NPN, Silicon
Q200	EP15X88	BEAM LIMITER THRESHOLD-NPN, Silicon
Q202	EP15X48	BEAM LIMITER CONTROL-PNP, Silicon
Q204	EP15X88	PEAK AMP-NPN, Silicon
Q208	EP15X88	VIDEO INV.-NPN, Silicon
Q210	EP15X48	VIDEO INV. AMP-PNP, Silicon
Q212	EP15X48	B-Y EMIT FOLLOWER-PNP, Silicon
Q218	EP15X48	VIDEO DRIVER-PNP, Silicon
Q300	EP15X226	NPN, Silicon
Q601	EP15X105	VERTICAL OUTPUT-NPN, Silicon
Q603	EP15X105	VERTICAL DRIVER-NPN, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y187	EP16X58	Zener, 17V
Y189	EP16X58	Zener, 17V
Y190	EP16X58	Zener, 17V
Y202	ES16X27	Silicon
Y204	ES16X27	Silicon
Y206	ES16X27	Silicon
Y208	EP16X58	Zener, 17V
Y214	ES16X27	Silicon
Y218	ES16X27	Silicon
Y299	EP16X58	Zener, 17V
Y300	EP16X147	Silicon
Y350	EP16X58	Zener, 17V
Y352	EP16X58	Zener, 17V
Y354	EP16X58	Zener, 17V
Y504	EP16X19	Zener, 5.6V
Y603	EP57X4	Rectifier
Y605	EP57X4	Rectifier
Y607	EP57X4	Rectifier
Y609	EP57X4	Rectifier
Y933	EP57X4	Rectifier
Y990	ES16X27	Silicon
Y991	EP57X5	Rectifier
Y992	EP57X5	Rectifier

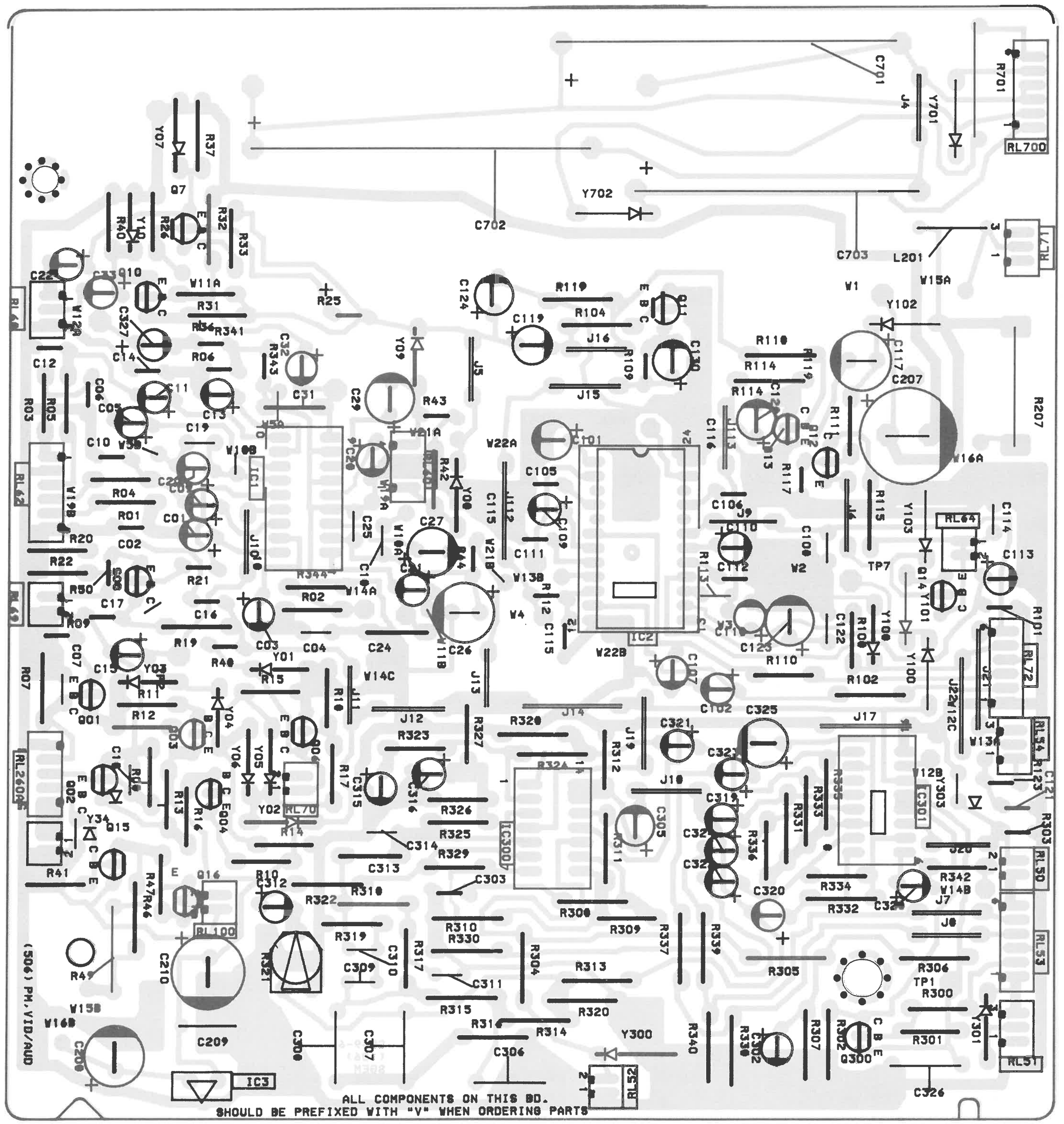
COILS & TRANSFORMERS

REF. NO.	PART NO.	DESCRIPTION
CF100	EP41X126	COIL-Audio, Ceramic Filter, 4.5mhz
CF101	EP41X143	COIL-Ceramic Trap, 4.5mhz
L101	EP36X442	CHOKE-.82μh, 20%
L102	EP36X442	CHOKE-.82μh, 20%
L104	EP36X4	COIL-Choke
L105	EP36X136	CHOKE-15μh, 10%
L106	EP36X433	COIL-Molded
L107	EP36X433	COIL-Molded
L108	EP36X468	COIL-IF Trap
L112	EP36X142	CHOKE-10μh, 10%
L113	EP36X142	CHOKE-10μh, 10%
L180	EP36X142	CHOKE-10μh, 10%
L190	EP36X435	COIL-Quad.
L200	EP36X314	CHOKE-30μh, 10%
L204	EP36X33	CHOKE-56μh, 10%
L220	EP36X459	COIL-Delay Line
L236	EP36X136	CHOKE-15μh, 5%
L300	EP36X23	CHOKE-12μh, 5%
L320	EP36X33	CHOKE-56μh, 5%
L321	EP36X33	CHOKE-56μh, 5%
L322	EP36X33	CHOKE-56μh, 5%
SF101	EP41X123	SURFACE FILTER
X300	EP41X10	CRYSTAL-Quartz Filter

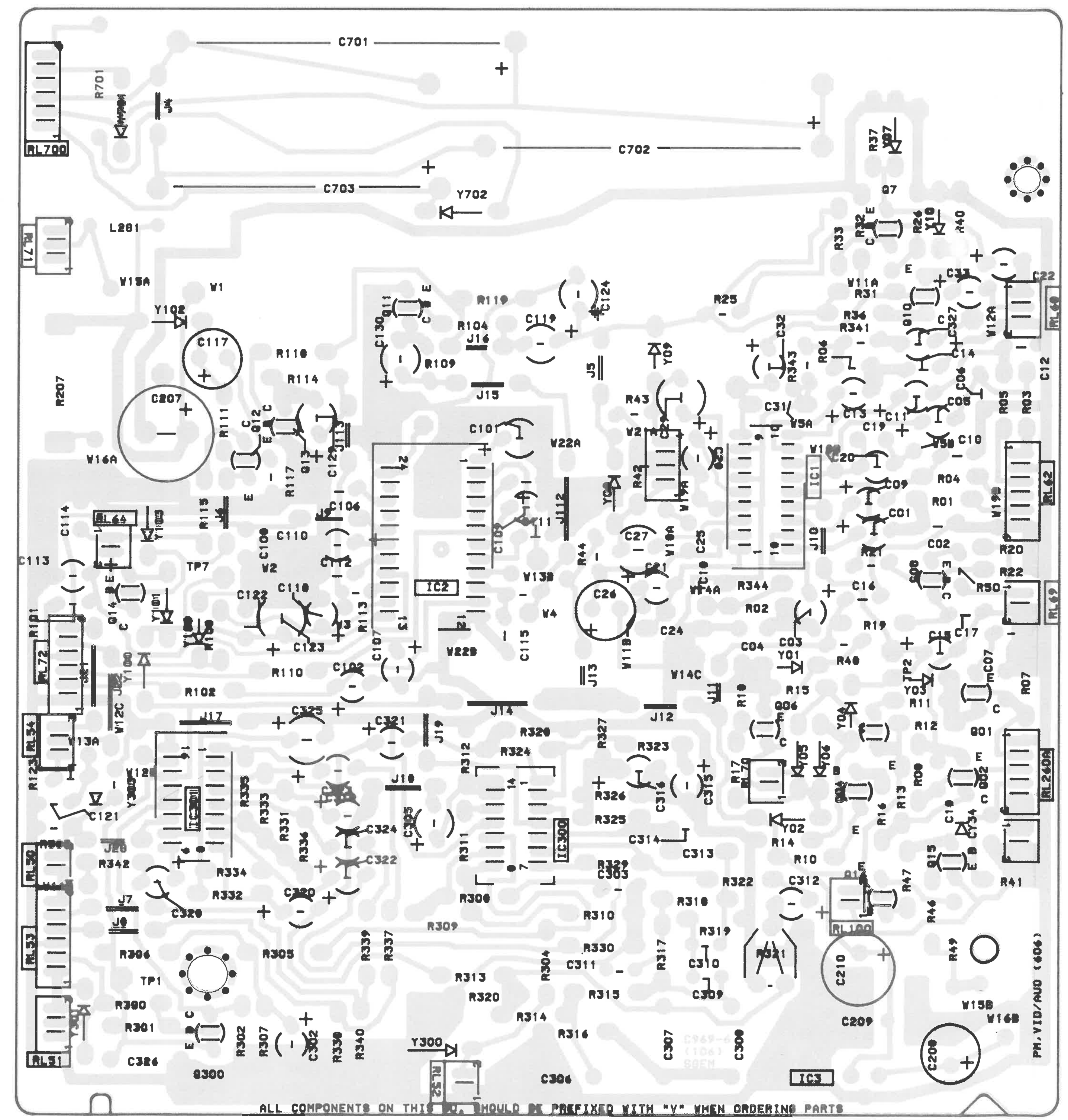
MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
RL5	EP8X44	CONNECTOR-6 Pins
	EP3X38	WASHER-Q601, Q603

AUDIO/VIDEO CIRCUIT BOARD LAYOUT (PM-D CHASSIS)

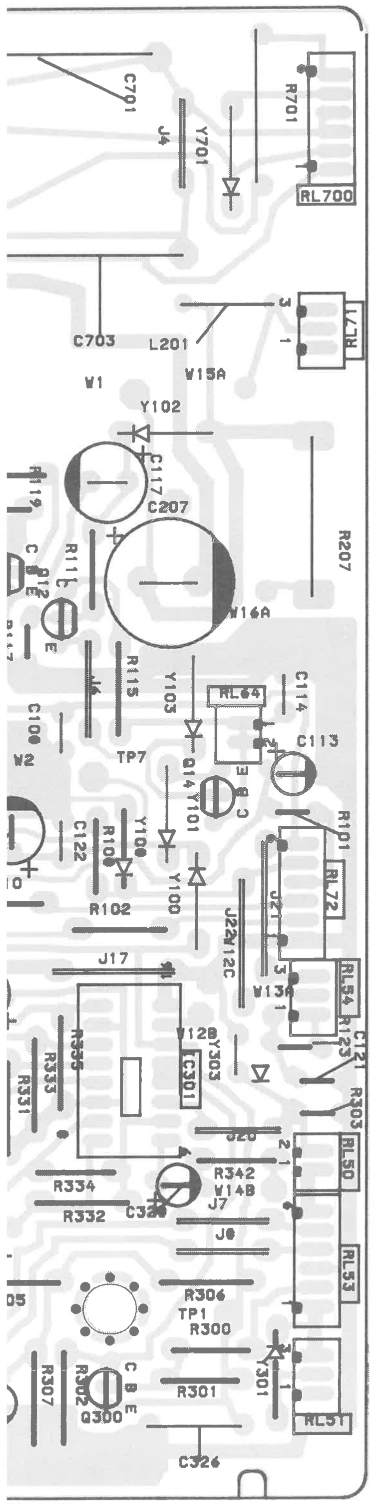


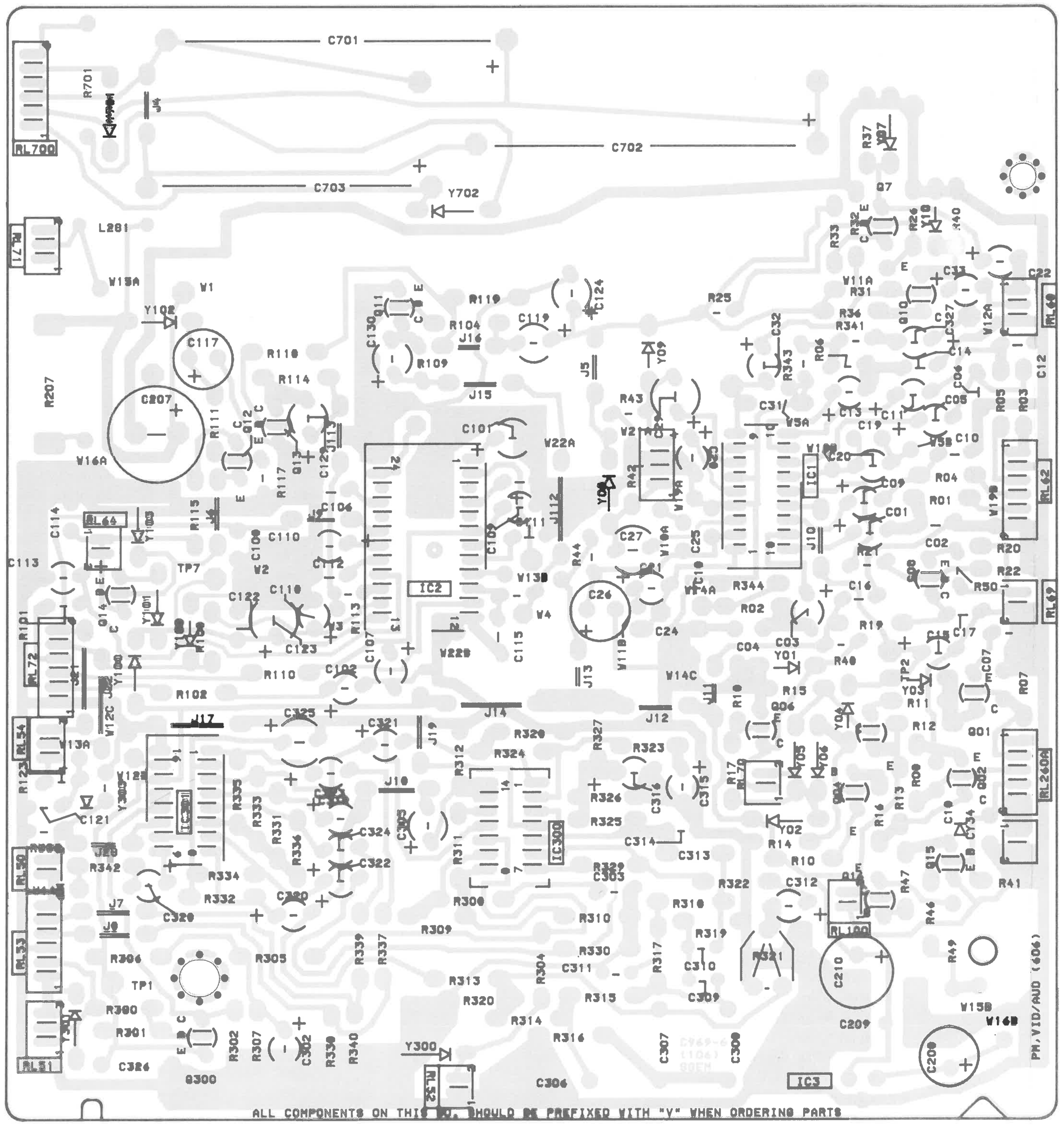
COMPONENT SIDE



COPPER SIDE

...DEO CIRCUIT BOARD LAYOUT (PM-D CHASSIS)





COPPER SIDE

AUDIO/VIDEO SWITCH CIRCUIT BOARD

EP93X571

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
VC01	EP31X172	22µf, 20%, 25V, Elect.
VC02	EP18X197	1000pf, 10%, 50V, SHiK, Cer. Disc
VC03	EP31X172	22µf, 20%, 25V, Elect.
VC04	EP18X197	1000pf, 10%, 50V, SHiK, Cer. Disc
VC05	EP31X172	22µf, 20%, 25V, Elect.
VC06	EP18X197	1000pf, 10%, 50V, SHiK, Cer. Disc
VC07	EP18X2929	.1µf, +30-80%, 25V, HiK, Cer. Disc
VC09	EP31X172	22µf, 20%, 25V, Elect.
VC10	EP18X197	1000pf, 10%, 50V, SHiK, Cer. Disc
VC11	EP31X172	22µf, 20%, 25V, Elect.
VC12	EP18X197	1000pf, 10%, 50V, SHiK, Cer. Disc
VC13	EP31X172	22µf, 20%, 25V, Elect.
VC14	EP18X197	1000pf, 10%, 50V, SHiK, Cer. Disc
VC15	EP31X173	2.2µf, 20%, 50V, Elect.
VC16	EP18X292	.1µf, +30-80%, 25V, HiK, Cer. Disc
VC17	EP25X95	.22µf, 20%, 50V, Polyester
VC18	EP18X292	.1µf, +30-80%, 25V, HiK, Cer. Disc
VC19	EP18X292	.1µf, +30-80%, 25V, HiK, Cer. Disc
VC20	EP31X172	22µf, 20%, 25V, Elect.
VC21	EP31X172	22µf, 20%, 25V, Elect.
VC22	EP31X172	22µf, 20%, 25V, Elect.
VC24	EP18X202	220pf, 10%, 50V, Cer. Disc
VC25	EP18X292	.1µf, +30-80%, 25V, HiK, Cer. Disc
VC26	EP31X188	220µf, 20%, 25V, Elect.
VC27	EP31X162	100µf, 20%, 25V, Elect.
VC28	EP31X172	22µf, 20%, 25V, Elect.
VC29	EP31X162	100µf, 20%, 25V, Elect.
VC31	EP18X202	220pf, 10%, 50V, Cer. Disc
VC32	EP31X172	22µf, 20%, 25V, Elect.
VC33	EP31X172	22µf, 20%, 25V, Elect.
VC101	EP31X45	47µf, 20%, 25V, Elect.
VC102	EP31X138	.47µf, 20%, 50V, Elect.
VC103	EP31X16	1µf, 20%, 50V, Elect.
VC104	EP31X16	1µf, 20%, 50V, Elect.
VC105	EP18X262	.01µf, 10%, 50V, SHiK, Cer. Disc
VC106	EP18X262	.01µf, 10%, 50V, SHiK, Cer. Disc
VC107	EP31X138	.47µf, 20%, 50V, Elect.
VC108	EP18X292	.1µf, +30-80%, 25V, HiK, Cer. Disc
VC109	EP31X149	10µf, 20%, 35V, Elect.
VC110	EP31X149	10µf, 20%, 35V, Elect.
VC111	EP25X95	.22µf, 10%, 50V, Polyester
VC112	EP25X95	.22µf, 10%, 50V, Polyester

VC113	EP31X138	.47μf, 20%, 50V, Elect.
VC114	EP18X292	.1μf, +30-80%, 25V, HiK, Cer. Disc
VC115	EP18X202	220pf, 10%, 50V, Cer. Disc
VC116	EP18X202	220pf, 10%, 50V, NPO, Cer. Disc
VC117	EP31X169	100μf, 20%, 50V, Elect.
VC118	EP31X138	.47μf, 20%, 50V, Elect.
VC119	EP31X45	
VC121	EP25X77	.1μf, 10%, 50V, Polyester
VC122	EP18X292	.1μf, +30-80%, 25V, HiK, Cer. Disc
VC123	EP31X169	100μf, 20%, 16V, Elect.
VC124	EP31X45	47μf, 20%, 35V, Elect.
VC129	EP31X169	100μf, 20%, 10V, Elect.
VC130	EP31X169	100μf, 20%, 10V, Elect.
VC207	EP31X182	1000μf, 20%, 50V, Elect.
VC208	EP31X188	220μf, 20%, 35V, Elect.
VC209	EP18X292	.1μf, +30-80%, 25V, HiK, Cer. Disc
VC210	EP31X159	470μf, 20%, 25V, Elect.
VC302	EP31X149	10μf, 20%, 35V, Elect.
VC303	EP25X77	.1μf, 10%, 50V, Polyester
VC305	EP31X45	47μf, 20%, 25V, Elect.
VC306	EP25X182	.47μf, 5%, 100V, Polyproplene
VC307	EP25X181	.22μf, 5%, 100V, Polyproplene
VC308	EP25X181	.22μf, 5%, 100V, Polyproplene
VC309	EP25X116	.001μf, 5%, 100V, Polyproplene
VC310	EP25X116	.001μf, 5%, 100V, Polyproplene
VC311	EP25X153	2200pf, 5%, 100V, Polyproplene
VC312	EP31X166	1μf, 20%, 50V, Elect.
VC313	EP18X169	.01μf, 30%, 25V, Cer. Disc
VC314	EP25X116	.001μf, 5%, 100V, Polyproplene
VC315	EP31X166	1μf, 20%, 50V, Elect.
VC316	EP31X149	10μf, 20%, 35V, Elect.
VC319	EP31X166	1μf, 20%, 50V, Elect.
VC320	EP31X166	1μf, 20%, 50V, Elect.
VC321	EP31X166	1μf, 20%, 50V, Elect.
VC322	EP31X166	1μf, 20%, 50V, Elect.
VC323	EP31X166	1μf, 20%, 50V, Elect.
VC324	EP31X166	1μf, 20%, 50V, Elect.
VC325	EP31X162	100μf, 20%, 25V, Elect.
VC326	EP25X95	.22μf, 10%, 50V, Polyester
VC327	EP31X179	4.7μf, 20%, 35V, Elect.
VC328	EP31X179	4.7μf, 20%, 35V, Elect.
VC701	EP31X199	4700μf, 20%, 25V, Elect.
VC702	EP31X199	4700μf, 20%, 25V, Elect.
VC703	EP31X198	3300μf, 20%, 25V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
VR01	ES14X56	33 ohm, 5%, 1/4W, Carbon
VR02	ES14X56	33 ohm, 5%, 1/4W, Carbon
VR03	ES14X56	33 ohm, 5%, 1/4W, Carbon
VR04	ES14X56	33 ohm, 5%, 1/4W, Carbon
VR05	ES14X56	33 ohm, 5%, 1/4W, Carbon
VR06	ES14X56	33 ohm, 5%, 1/4W, Carbon
VR07	EP14X106	1 meg ohm, 5%, 1/4W, Carbon
VR08	EP14X106	1 meg ohm, 5%, 1/4W, Carbon
VR09	ES14X69	56 ohm, 5%, 1/4W, Carbon
VR10	ES14X69	56 ohm, 5%, 1/4W, Carbon
VR11	EP14X103	10K ohm, 5%, 1/4W, Carbon
VR12	EP14X103	10K ohm, 5%, 1/4W, Carbon
VR13	EP14X103	10K ohm, 5%, 1/4W, Carbon
VR14	EP14X103	10K ohm, 5%, 1/4W, Carbon
VR15	EP14X103	10K ohm, 5%, 1/4W, Carbon
VR16	ES14X64	2K ohm, 5%, 1/4W, Carbon
VR17	ES14X64	2K ohm, 5%, 1/4W, Carbon
VR18	ES14X64	2K ohm, 5%, 1/4W, Carbon
VR19	ES14X69	56 ohm, 5%, 1/4W, Carbon
VR20	EP14X165	75 ohm, 5%, 1/4W, Carbon
VR21	EP14X165	75 ohm, 5%, 1/4W, Carbon
VR22	EP14X396	240 ohm, 5%, 1/4W, Carbon
VR25	EP14X341	20K ohm, 5%, 1/4W, Carbon
VR26	EP14X341	20K ohm, 5%, 1/4W, Carbon
VR31	EP14X341	20K ohm, 5%, 1/4W, Carbon
VR32	EP14X341	20K ohm, 5%, 1/4W, Carbon
VR33	ES14X59	560 ohm, 5%, 1/4W, Carbon
VR36	ES14X59	560 ohm, 5%, 1/4W, Carbon
VR37	EP14X364	1K ohm, 5%, 1/4W, Carbon
VR40	EP14X364	1K ohm, 5%, 1/4W, Carbon
VR41	EP14X106	1 meg ohm, 5%, 1/4W, Carbon
VR42	EP14X165	75 ohm, 5%, 1/4W, Carbon
VR43	EP14X165	75 ohm, 5%, 1/4W, Carbon
VR44	EP14X188	15 ohm, 5%, 1/4W, Carbon
VR46	EP14X136	33K ohm, 5%, 1/4W, Carbon
VR47	EP14X103	10K ohm, 5%, 1/4W, Carbon
VR48	EP14X125	47K ohm, 5%, 1/4W, Carbon
VR49	EP14X476	330 ohm, 5%, 3W, Metal Oxide
VR50	ES14X56	33 ohm, 5%, 1/4W, Carbon
VR101	EP14X125	47K ohm, 5%, 1/4W, Carbon
VR102	EP14X125	47K ohm, 5%, 1/4W, Carbon
VR104	EP14X136	33K ohm, 5%, 1/4W, Carbon
VR108	EP14X284	1K ohm, 5%, 1/4W, Carbon
VR109	EP14X427	200K ohm, 5%, 1/4W, Carbon
VR110	EP14X125	47K ohm, 5%, 1/4W, Carbon
VR111	EP14X136	33K ohm, 5%, 1/4W, Carbon
VR112	ES14X71	1K ohm, 5%, 1/4W, Carbon
VR113	ES14X71	1K ohm, 5%, 1/4W, Carbon
VR114	EP14X427	200K ohm, 5%, 1/4W, Carbon
VR115	ES14X64	2K ohm, 5%, 1/4W, Carbon
VR117	EP14X136	33K ohm, 5%, 1/4W, Carbon
VR118	EP14X136	33K ohm, 5%, 1/4W, Carbon
VR119	EP14X104	22K ohm, 5%, 1/4W, Carbon
VR123	EP14X103	10K ohm, 5%, 1/4W, Carbon
VR207	EP14X477	96 ohm, 5%, 7W, Wirewound
VR300	EP14X427	200K ohm, 5%, 1/4W, Carbon
VR301	EP14X38	51K ohm, 5%, 1/4W, Carbon
VR302	EP14X413	12K ohm, 5%, 1/4W, Carbon
VR303	EP14X431	12K ohm, 5%, 1/4W, Carbon
VR304	EP14X103	10K ohm, 5%, 1/4W, Carbon
VR305	EP14X106	1 meg ohm, 5%, 1/4W, Carbon
VR306	EP14X105	100K ohm, 5%, 1/4W, Carbon
VR307	EP14X439	43K ohm, 5%, 1/4W, Carbon
VR308	EP14X395	430K ohm, 5%, 1/4W, Carbon
VR309	EP14X105	100K ohm, 5%, 1/4W, Carbon
VR310	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
VR311	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
VR312	ES14X58	470 ohm, 5%, 1/4W, Carbon
VR313	ES14X61	820 ohm, 5%, 1/4W, Carbon
VR314	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
VR315	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
VR316	EP14X411	2.4K ohm, 5%, 1/2W, Carbon
VR317	EP14X136	33K ohm, 5%, 1/4W, Carbon
VR318	EP14X136	33K ohm, 5%, 1/4W, Carbon
VR319	EP14X414	18K ohm, 5%, 1/4W, Carbon
VR320	EP14X120	150 ohm, 5%, 1/4W, Carbon
VR322	EP14X122	7.5K ohm, 5%, 1/4W, Carbon
VR323	EP14X424	8.2K ohm, 5%, 1/4W, Carbon
VR324	EP14X140	330K ohm, 5%, 1/4W, Carbon
VR325	EP14X106	1 meg ohm, 5%, 1/4W, Carbon
VR326	EP14X105	100K ohm, 5%, 1/4W, Carbon
VR327	EP14X105	100K ohm, 5%, 1/4W, Carbon
VR328	EP14X394	6.2K ohm, 5%, 1/4W, Carbon
VR329	EP14X140	330K ohm, 5%, 1/4W, Carbon
VR330	EP14X394	6.2K ohm, 5%, 1/4W, Carbon
VR331	EP14X133	470K ohm, 5%, 1/4W, Carbon
VR332	EP14X133	470K ohm, 5%, 1/4W, Carbon
VR333	EP14X133	470K ohm, 5%, 1/4W, Carbon
VR334	EP14X133	470K ohm, 5%, 1/4W, Carbon
VR335	EP14X133	470K ohm, 5%, 1/4W, Carbon
VR336	EP14X133	470K ohm, 5%, 1/4W, Carbon
VR337	ES14X64	2K ohm, 5%, 1/4W, Carbon
VR338	ES14X64	2K ohm, 5%, 1/4W, Carbon
VR339	ES14X64	2K ohm, 5%, 1/4W, Carbon
VR340	ES14X64	2K ohm, 5%, 1/4W, Carbon
VR341	ES14X64	2K ohm, 5%, 1/4W, Carbon
VR342	ES14X64	2K ohm, 5%, 1/4W, Carbon
VR343	EP14X418	5.1K ohm, 5%, 1/4W, Carbon
VR344	EP14X418	5.1K ohm, 5%, 1/4W, Carbon
VR701	EP14X48	10 ohm, 5%, 1W, Metal Oxide

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
VR321	EP49X490	500 ohm, 20%

INTEGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
VIC01	EP84X260	BIPOLAR
VIC02	EP84X259	BIPOLAR
VIC03	EP84X217	3 TERMINAL VOLTAGE REGULATOR
VIC300	EP84X119	DL & QD DPAMP
VIC301	EP84X143	AUDIO SWITCH

REF. NO.	PART NO.	DESCRIPTION
VR07	EP14X106	1 meg ohm, 5%, 1/4W, Carbon
VR08	EP14X106	1 meg ohm, 5%, 1/4W, Carbon
VR09	ES14X69	56 ohm, 5%, 1/4W, Carbon
VR10	ES14X69	56 ohm, 5%, 1/4W, Carbon
VR11	EP14X103	10K ohm, 5%, 1/4W, Carbon
VR12	EP14X103	10K ohm, 5%, 1/4W, Carbon
VR13	EP14X103	10K ohm, 5%, 1/4W, Carbon
VR14	EP14X103	10K ohm, 5%, 1/4W, Carbon
VR15	EP14X103	10K ohm, 5%, 1/4W, Carbon
VR16	ES14X64	2K ohm, 5%, 1/4W, Carbon
VR17	ES14X64	2K ohm, 5%, 1/4W, Carbon
VR18	ES14X64	2K ohm, 5%, 1/4W, Carbon
VR19	ES14X69	56 ohm, 5%, 1/4W, Carbon
VR20	EP14X165	75 ohm, 5%, 1/4W, Carbon
VR21	EP14X165	75 ohm, 5%, 1/4W, Carbon
VR22	EP14X396	240 ohm, 5%, 1/4W, Carbon
VR25	EP14X341	20K ohm, 5%, 1/4W, Carbon
VR26	EP14X341	20K ohm, 5%, 1/4W, Carbon
VR31	EP14X341	20K ohm, 5%, 1/4W, Carbon
VR32	EP14X341	20K ohm, 5%, 1/4W, Carbon
VR33	ES14X59	560 ohm, 5%, 1/4W, Carbon
VR36	ES14X59	560 ohm, 5%, 1/4W, Carbon
VR37	EP14X364	1K ohm, 5%, 1/4W, Carbon
VR40	EP14X364	1K ohm, 5%, 1/4W, Carbon
VR41	EP14X106	1 meg ohm, 5%, 1/4W, Carbon
VR42	EP14X165	75 ohm, 5%, 1/4W, Carbon
VR43	EP14X165	75 ohm, 5%, 1/4W, Carbon
VR44	EP14X188	15 ohm, 5%, 1/4W, Carbon
VR46	EP14X136	33K ohm, 5%, 1/4W, Carbon
VR47	EP14X103	10K ohm, 5%, 1/4W, Carbon
VR48	EP14X125	47K ohm, 5%, 1/4W, Carbon
VR49	EP14X476	330 ohm, 5%, 3W, Metal Oxide
VR50	ES14X56	33 ohm, 5%, 1/4W, Carbon
VR101	EP14X125	47K ohm, 5%, 1/4W, Carbon
VR102	EP14X125	47K ohm, 5%, 1/4W, Carbon
VR104	EP14X136	33K ohm, 5%, 1/4W, Carbon
VR108	EP14X284	1K ohm, 5%, 1/4W, Carbon
VR109	EP14X427	200K ohm, 5%, 1/4W, Carbon
VR110	EP14X125	47K ohm, 5%, 1/4W, Carbon
VR111	EP14X136	33K ohm, 5%, 1/4W, Carbon
VR112	ES14X71	1K ohm, 5%, 1/4W, Carbon
VR113	ES14X71	1K ohm, 5%, 1/4W, Carbon
VR114	EP14X427	200K ohm, 5%, 1/4W, Carbon
VR115	ES14X64	2K ohm, 5%, 1/4W, Carbon
VR117	EP14X136	33K ohm, 5%, 1/4W, Carbon
VR118	EP14X136	33K ohm, 5%, 1/4W, Carbon
VR119	EP14X104	22K ohm, 5%, 1/4W, Carbon
VR123	EP14X103	10K ohm, 5%, 1/4W, Carbon
VR207	EP14X477	96 ohm, 5%, 7W, Wirewound
VR300	EP14X427	200K ohm, 5%, 1/4W, Carbon
VR301	EP14X38	51K ohm, 5%, 1/4W, Carbon
VR302	EP14X413	12K ohm, 5%, 1/4W, Carbon
VR303	EP14X431	12K ohm, 5%, 1/4W, Carbon
VR304	EP14X103	10K ohm, 5%, 1/4W, Carbon
VR305	EP14X106	1 meg ohm, 5%, 1/4W, Carbon
VR306	EP14X105	100K ohm, 5%, 1/4W, Carbon
VR307	EP14X439	43K ohm, 5%, 1/4W, Carbon
VR308	EP14X395	430K ohm, 5%, 1/4W, Carbon
VR309	EP14X105	100K ohm, 5%, 1/4W, Carbon
VR310	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
VR311	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
VR312	ES14X58	470 ohm, 5%, 1/4W, Carbon
VR313	ES14X61	820 ohm, 5%, 1/4W, Carbon
VR314	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
VR315	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
VR316	EP14X411	2.4K ohm, 5%, 1/2W, Carbon
VR317	EP14X136	33K ohm, 5%, 1/4W, Carbon
VR318	EP14X136	33K ohm, 5%, 1/4W, Carbon
VR319	EP14X414	18K ohm, 5%, 1/4W, Carbon
VR320	EP14X120	150 ohm, 5%, 1/4W, Carbon
VR322	EP14X122	7.5K ohm, 5%, 1/4W, Carbon
VR323	EP14X424	8.2K ohm, 5%, 1/4W, Carbon
VR324	EP14X140	330K ohm, 5%, 1/4W, Carbon
VR325	EP14X106	1 meg ohm, 5%, 1/4W, Carbon
VR326	EP14X105	100K ohm, 5%, 1/4W, Carbon
VR327	EP14X105	100K ohm, 5%, 1/4W, Carbon
VR328	EP14X394	6.2K ohm, 5%, 1/4W, Carbon
VR329	EP14X140	330K ohm, 5%, 1/4W, Carbon
VR330	EP14X394	6.2K ohm, 5%, 1/4W, Carbon
VR331	EP14X133	470K ohm, 5%, 1/4W, Carbon
VR332	EP14X133	470K ohm, 5%, 1/4W, Carbon
VR333	EP14X133	470K ohm, 5%, 1/4W, Carbon
VR334	EP14X133	470K ohm, 5%, 1/4W, Carbon
VR335	EP14X133	470K ohm, 5%, 1/4W, Carbon
VR336	EP14X133	470K ohm, 5%, 1/4W, Carbon
VR337	ES14X64	2K ohm, 5%, 1/4W, Carbon
VR338	ES14X64	2K ohm, 5%, 1/4W, Carbon
VR339	ES14X64	2K ohm, 5%, 1/4W, Carbon
VR340	ES14X64	2K ohm, 5%, 1/4W, Carbon
VR341	ES14X64	2K ohm, 5%, 1/4W, Carbon
VR342	ES14X64	2K ohm, 5%, 1/4W, Carbon
VR343	EP14X418	5.1K ohm, 5%, 1/4W, Carbon
VR344	EP14X418	5.1K ohm, 5%, 1/4W, Carbon
VR701	EP14X48	10 ohm, 5%, 1W, Metal Oxide

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
VR321	EP49X490	500 ohm, 20%

INTEGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
VIC01	EP84X260	BIPOLAR
VIC02	EP84X259	BIPOLAR
VIC03	EP84X217	3 TERMINAL VOLTAGE REGULATOR
VIC300	EP84X119	DL & QD DPAMP
VIC301	EP84X143	AUDIO SWITCH

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
VQ01	EP15X86	Silicon, NPN
VQ02	EP15X86	Silicon, NPN
VQ03	EP15X48	Silicon, PNP
VQ04	EP15X48	Silicon, PNP
VQ05	EP15X86	Silicon, NPN
VQ06	EP15X86	Silicon, NPN
VQ07	EP15X86	Silicon, NPN
VQ10	EP15X86	Silicon, NPN
VQ11	EP15X86	Silicon, NPN
VQ12	EP15X86	Silicon, NPN
VQ13	EP15X86	Silicon, NPN
VQ14	EP15X86	Silicon, NPN
VQ15	EP15X86	Silicon, NPN
VQ16	EP15X48	Silicon, PNP
VQ300	ES15X90	Silicon, PNP

DIODES

REF. NO.	PART NO.	DESCRIPTION
VY01	EP16X58	Zener, 17V
VY02	EP16X58	Zener, 17V
VY03	ES16X27	Silicon
VY04	ES16X27	Silicon
VY05	ES16X27	Silicon
VY06	ES16X27	Silicon
VY07	EP16X58	Zener, 17V
VY08	EP16X58	Zener, 17V
VY09	EP16X58	Zener, 17V
VY10	EP16X58	Zener, 17V
VY18	EP16X58	Zener, 17V
VY34	EP16X58	Zener, 17V
VY100	EP57X4	Rectifier
VY101	EP57X4	Rectifier
VY102	EP57X4	Rectifier
VY103	EP15X155	Zener, 10V
VY108	EP16X19	Zener, 5.6V
VY300	EP16X58	Zener, 17V
VY301	ES16X27	Silicon
VY303	EP16X58	Zener, 17V
VY701	EP57X4	Rectifier
VY702	EP57X4	Rectifier

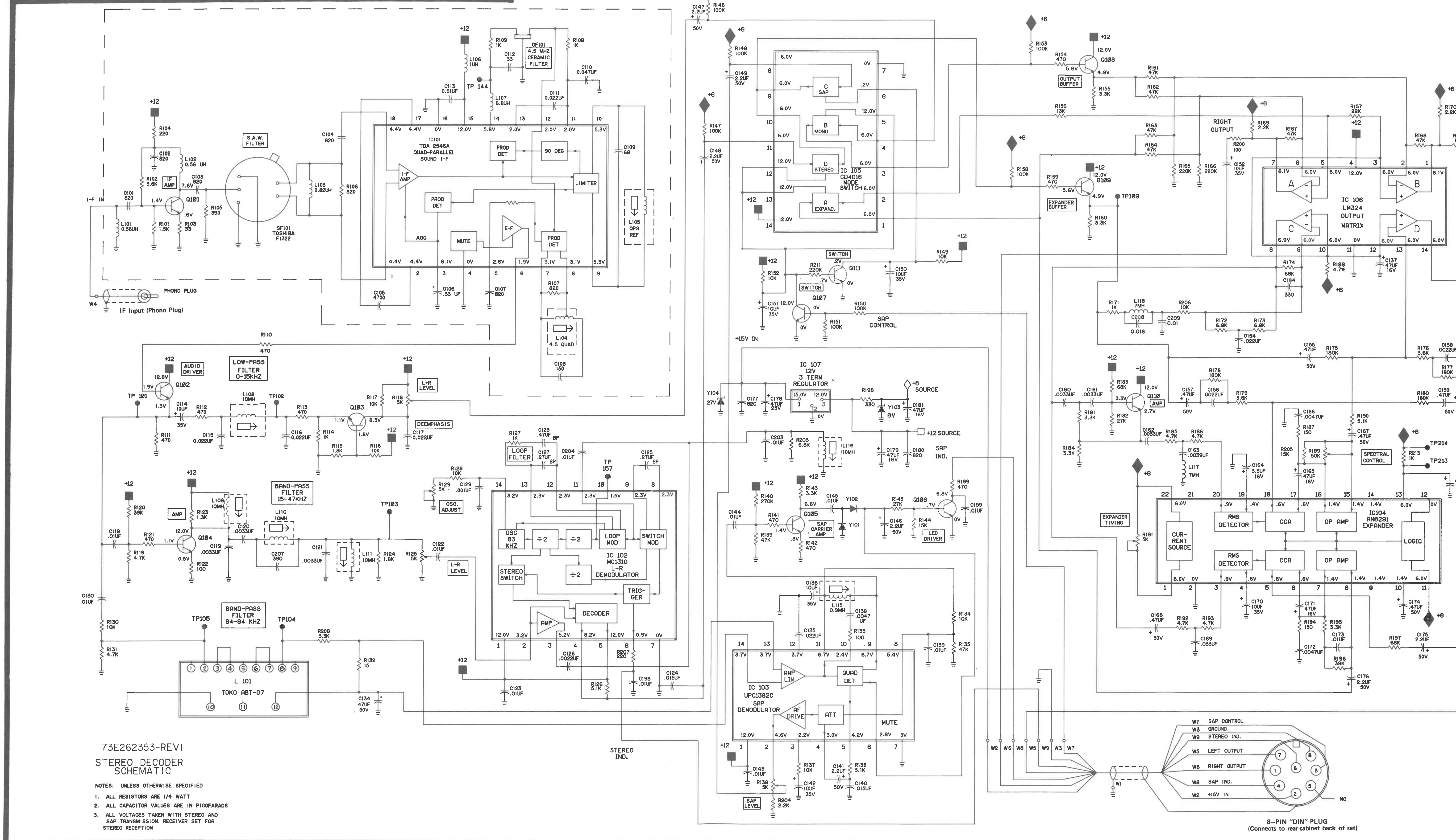
COIL

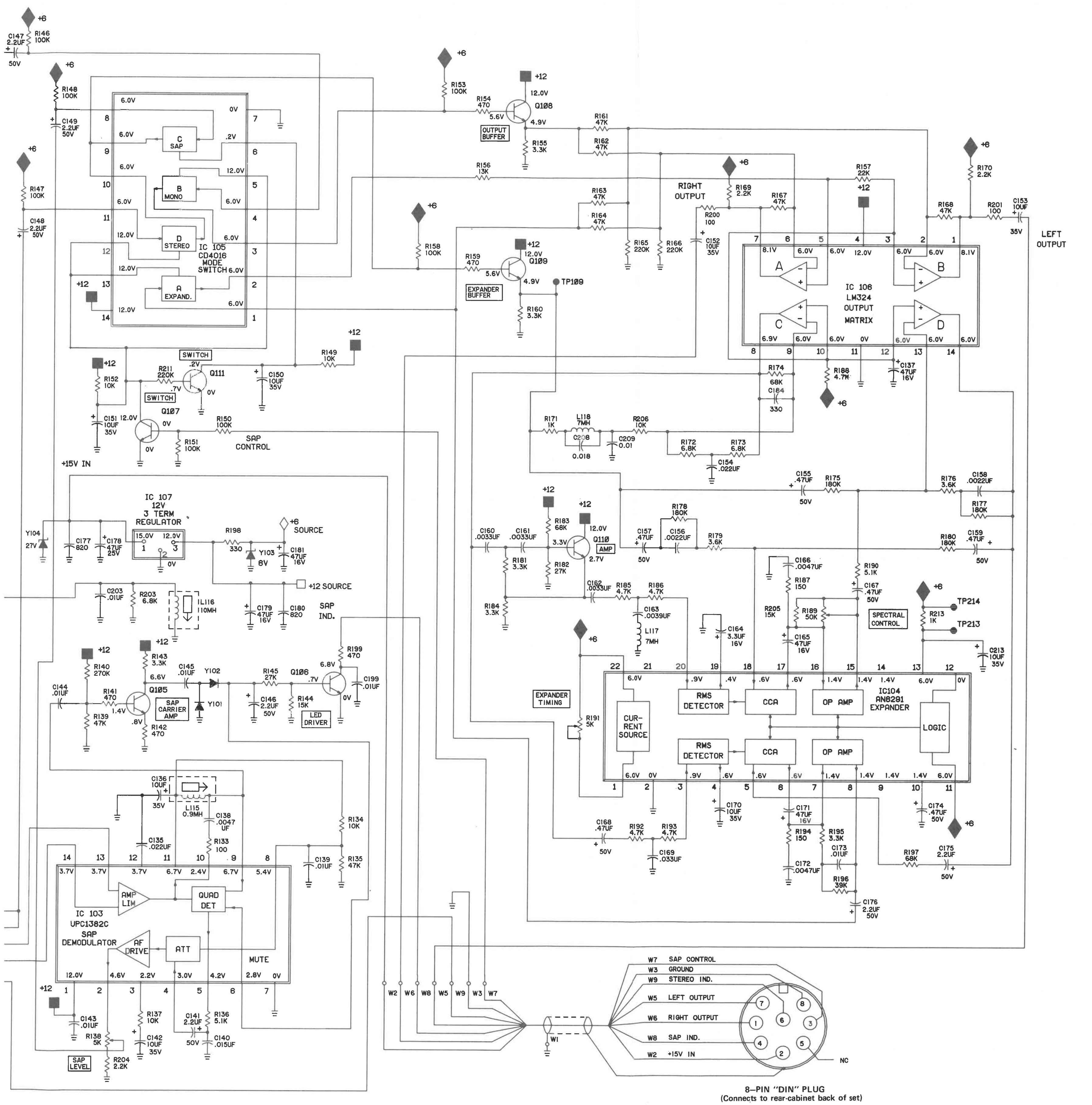
REF. NO.	PART NO.	DESCRIPTION
VL201	EP36X436	CHOKE-Filament

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
RL80	EP8X71	CONNECTOR-6 Pos.

SBA-800 "Stereo/Bilingual" ADAPTER SCHEMATIC DIAGRAM





SBA-800 (PARTIAL) REPLACEMENT PARTS LIST

SBA 800 STEREO/BILINGUAL ADAPTER

EP90X56

INTERGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
SIC101	EP84X254	OPS/FM DET
SIC102	EP84X253	(L - R) DEMOD
SIC103	EP84X216	(SAP) DEMOD
SIC104	EP84X252	BIPLR DBX (EXPANDER)
SIC105	EP84X30	QUAD BILATRL MODE SWITCH
SIC106	EP84X119	DL & QD DP AMP
SIC107	EP84X217	3 TERMINAL 12 VOLTAGE REGULATOR

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
SQ101	EP15X104	IF AMP-HF BIPOLAR
SQ102	EP15X87	AUDIO DRIVER-Silicon, NPN
SQ103	EP15X87	DEEMPHASIS-Silicon, NPN
SQ104	EP15X87	AMP-Silicon, NPN
SQ105	EP15X87	SAP CARRIER AMP-Silicon, NPN
SQ106	EP15X87	LED DRIVER-Silicon, NPN
SQ107	EP15X87	SWITCH-Silicon, NPN
SQ108	EP15X87	OUTPUT BUFFER-Silicon, NPN
SQ109	EP15X87	EXPANDER BUFFER-Silicon, NPN
SQ110	EP15X87	AMP-Silicon, NPN
SQ111	EP15X87	SWITCH-Silicon, NPN

DIODES

REF. NO.	PART NO.	DESCRIPTION
SY101	ES16X27	Silicon
SY102	ES16X27	Silicon
SY103	EP16X153	Zener, 6.2V
SY104	EP16X156	Zener, 27V

SBA-800 Stereo/Bilingual ADAPTER

MINI-MANUAL

SERVICE INFORMATION FOR TECHNICIAN USE ONLY

ACCESSIBLE FROM INSIDE TV SET ONLY

73E261927—1

NOTICE TO TECHNICIAN:

THIS MINI—MANUAL IS CUSTOMER PROPERTY. PLEASE REPLACE IN SET WHEN SERVICING IS COMPLETED.

HOW TO USE THE STEREO/BILINGUAL FEATURE

If a station is broadcasting a stereo and/or bilingual (second audio program) signal, the STEREO and/or BILINGUAL indicator (on the front of your TV) will light. A major use of the second audio program broadcast signal will be for second language transmission.

To access these transmissions:*

19'' - 26'' MODEL TV

To access the stereo broadcast:

- Push in the SOUND PLUS/STEREO button. You will automatically receive the stereo broadcast sound.

To access the bilingual (second audio program) broadcast:

- Push in the SOUND PLUS/STEREO button.
- Set the PROG/LOCK switch on the TV remote control to lock.
- Press the BILING button. You will now receive the bilingual or second source audio. The video portion will remain unchanged.
- To return to the STEREO or SOUND PLUS audio, press the BILING button again.

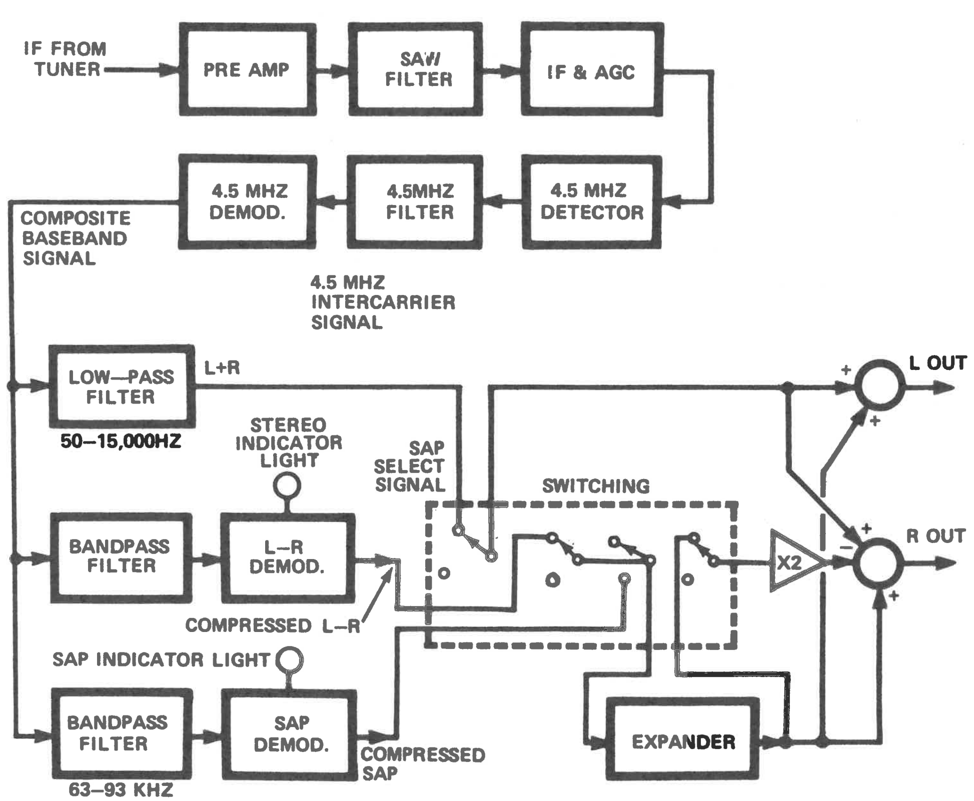
40'' MODELS

The stereo or bilingual indicator must be lit in order for your TV to receive stereo or bilingual signals.

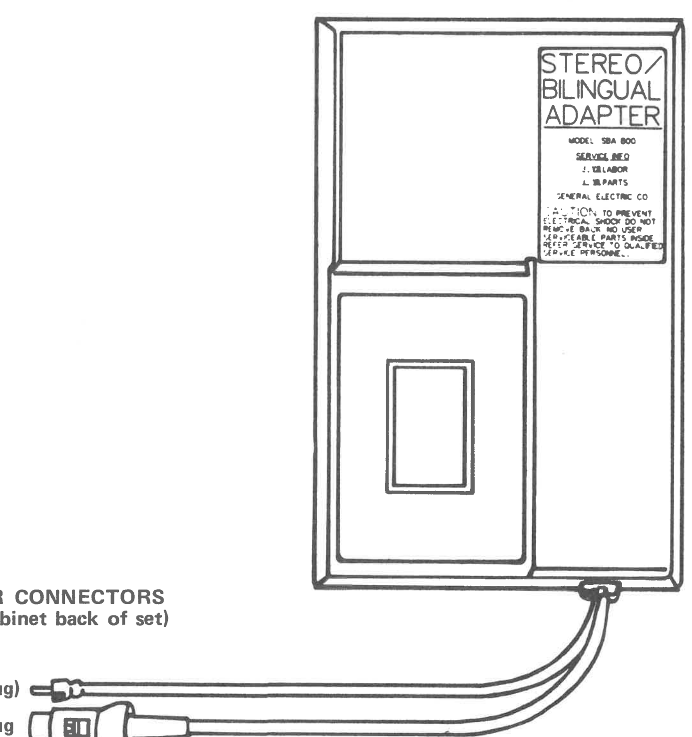
- Press the AUDIO button (on the front of the TV) to select the type of second source signal you want to use. STEREO or BILINGUAL will light on the Indicator Panel to show you which source is activated.
- You may also use the AUDIO button on the remote control to access stereo and bilingual programming.

* You will be able to receive stereo and/or bilingual broadcasts only in areas and at times when programs are broadcast in stereo or with a second audio source. Consult your local listings for availability.

SBA-800 BLOCK DIAGRAM

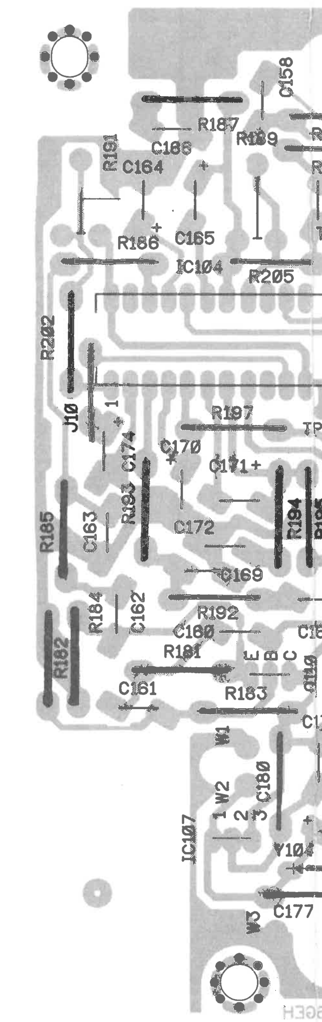


SBA-800 (EXTERNAL) CONNECTORS



STEREO ADAPTER CONNECTORS
(Connects to rear-cabinet back of set)

SBA-800 PRINTED CIRCUIT BOARD LA



- To return to the STEREO or SOUND PLUS audio, press the BILING button again.

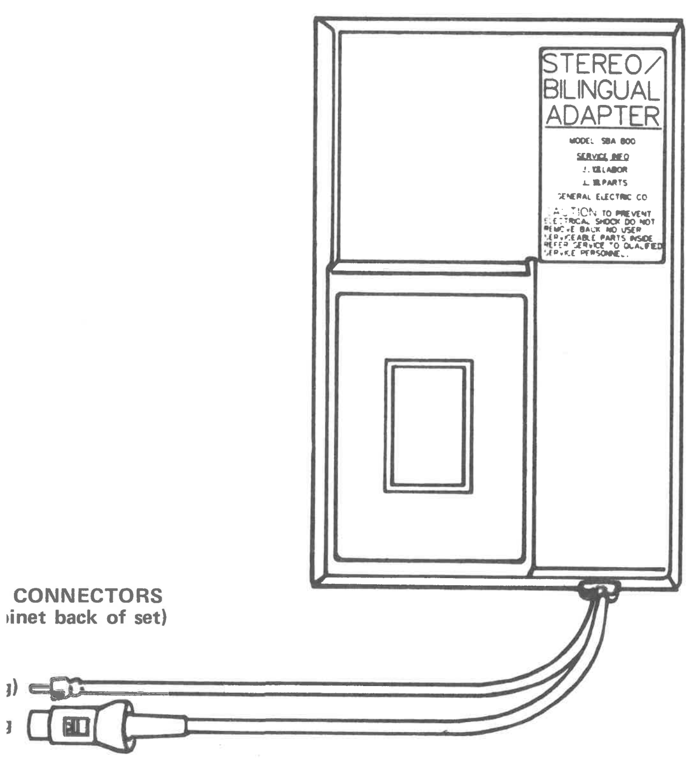
40'' MODELS

The stereo or bilingual indicator must be lit in order for your TV to receive stereo or bilingual signals.

- Press the AUDIO button (on the front of the TV) to select the type of second source signal you want to use. STEREO or BILINGUAL will light on the Indicator Panel to show you which source is activated.
- You may also use the AUDIO button on the remote control to access stereo and bilingual programming.

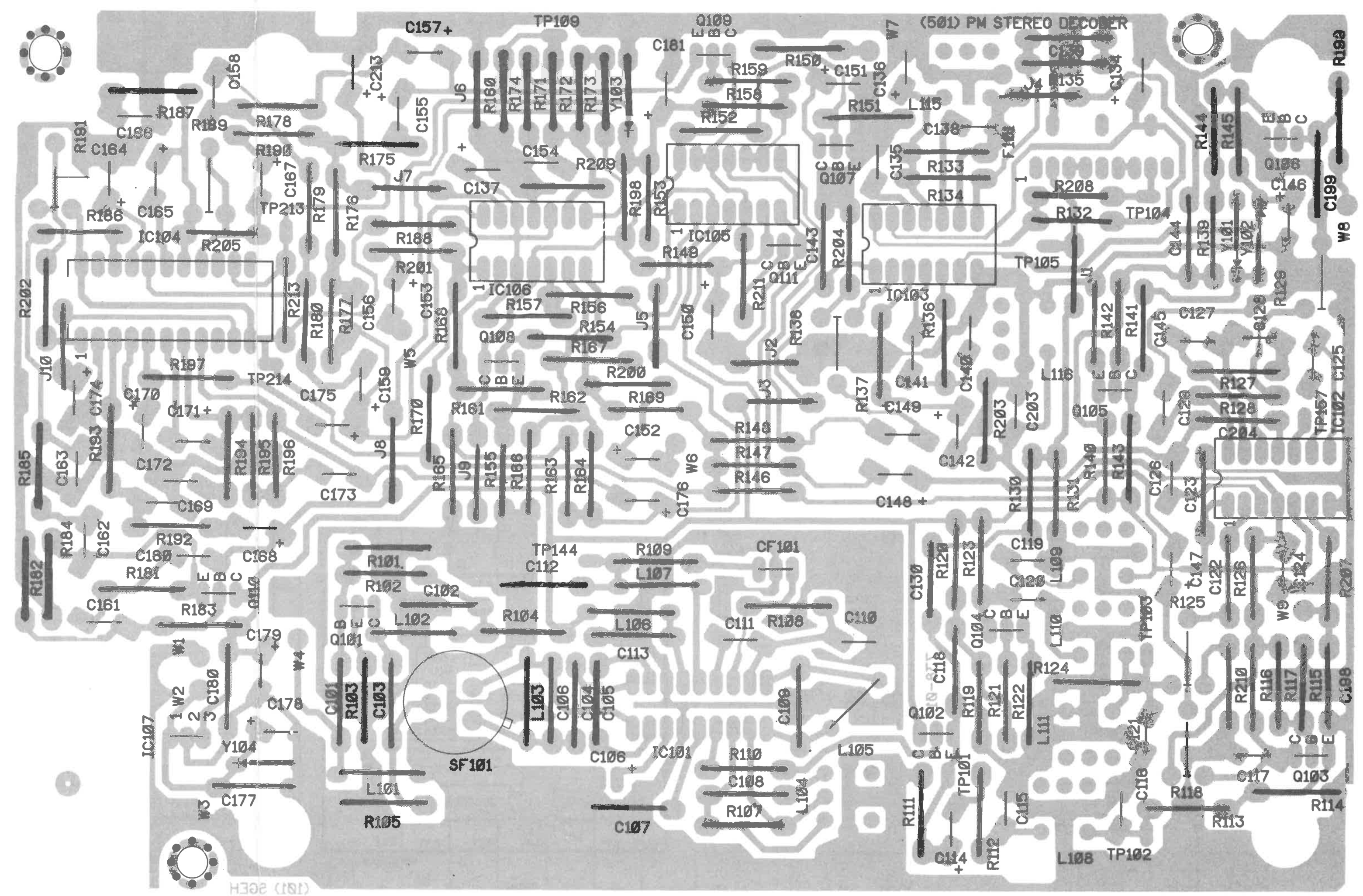
* You will be able to receive stereo and/or bilingual broadcasts only in areas and at times when programs are broadcast in stereo or with a second audio source. Consult your local listings for availability.

ERNAL) CONNECTORS



CONNECTORS
inet back of set)

SBA-800 PRINTED CIRCUIT BOARD LAYOUT



HomeMinder™ (PARTIAL) PARTS LIST

DIODES

REF. NO.	PART NO.	DESCRIPTION
D1	EW57X1	1N4002GP, Rectifier
D2	EW57X1	1N4002GP, Rectifier
D3	EW57X1	1N4002GP, Rectifier
D4	EW57X1	1N4002GP, Rectifier
D5	EW57X7	1N5401, Rectifier
D6	EW57X7	1N5401, Rectifier
D7	EW57X7	1N5401, Rectifier
D8	EW57X7	1N5401, Rectifier
D9	EW57X6	1N4007GP, Rectifier
D10	EW57X1	1N4001GP, Rectifier
D11	EW16X420	1N4606, Silicon
D12	EW16X420	1N4606, Silicon
D13	EW16X423	ZENER
D14	EW16X420	1N4606, Silicon
D15	EW16X420	1N4606, Silicon
D16	EW16X420	1N4606, Silicon
D17	EW16X420	1N4606, Silicon
D18	EW16X420	1N4606, Silicon
D19	EW16X420	1N4606, Silicon
D20	EW16X420	1N4606, Silicon
D21	EW16X420	1N4606, Silicon
D22	EW16X420	1N4606, Silicon
D23	EW16X420	1N4606, Silicon
D24	EW16X420	1N4606, Silicon
D25	EW16X420	1N4606, Silicon
D26	EW16X420	1N4606, Silicon
D27	EW16X420	1N4606, Silicon
D28	EW16X420	1N4606, Silicon
D29	EW16X420	1N4606, Silicon
D30	EW16X420	1N4606, Silicon
D31	EW16X424	ZENER, 3.3V, 5%, 400mw
D32	EW16X425	ZENER, 5.6V, 5%, 1/2W
D33	EW16X421	ZENER, 18V, 5%, 1.3W
D34	EW16X422	ZENER, 22V, 5%, 1.3W
D35	EW16X426	ZENER, 68V, 5%, 1.3W
D36	EW16X420	1N4606, Silicon
D37	EW16X420	1N4606, Silicon
D38	EW16X420	1N4606, Silicon
D39	EW16X420	1N4606, Silicon

INTEGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
★IC1	EW84X662	GI-MMCT272, Optic Isolator
★IC2	EW84X661	HA11A520, Optic Isolator
IC3	EW84X652	Z8400A, Processor
IC4	EW84X646	TMS9118NL
IC5	EW84X659	TMS4416-20NL
IC6	EW84X659	TMS4416-20NL
IC7	EW84X645	MSM5832RS,Real Time Clock Chip
IC8	EW84X649	HM6116LP4
IC10	EW84X651	EPROM, 27128-251
IC11	EW84X651	EPROM, 27128-251
IC12	EW84X651	EPROM, 27128-251
IC13	EW84X656	74LS32, 16kx4 DRAM
IC14	EW84X656	74LS32, 16kx4 DRAM
IC15	EW84X653	TTL74LS74,Dual D Type Bistable
IC16	EW84X657	74LS139, Dual 10F4 Decoder
IC17	EW84X655	TTL74LS393, Dual Counter
IC18	EW84X654	SN74LS04, Hex Inverting Buffer
IC19	EW84X647	MT8865XE, DTMF Filter
IC20	EW84X655	TTL74LS393, Dual Counter
IC21	EW84X648	MT8860XE, DTMF Tone Decoder
IC22	EW84X653	TTL74LS74,Dual D Type Bistable
IC23	EW84X660	74LS244, Octal 3-State Driver
IC24	EW84X658	74LS174, D-Flip Flop
IC25	EW84X644	TDA5850, Video Switch
IC26	EW84X643	CA311E, Voltage Comparator
IC27	EW84X650	78568, Pico Repeater
RG1	EW84X641	LM7805, Regulator, (+5V)
RG2	EW84X642	LM7815, Regulator, (+15V)

COILS AND TRANSFORMERS

REF. NO.	PART NO.	DESCRIPTION
★L1	EW88X42	TRANSFORMER-Power
★L2	EW37X34	TRANSFORMER-Telephone
L3	EW36X482	CHOKE-120K hz, 5A
★L4	EW88X43	TRANSFORMER-Output Isolation
L5	EW36X480	COIL-Variable
L6	EW36X479	COIL-Variable
L7	EW36X480	COIL-Variable
L8	EW36X481	COIL-100uh, VHF

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
TR1	EW15X444	BC548C, Silicon, NPN
TR2	EW15X441	2N3904, Silicon, NPN
TR3	EW15X441	2N3904, Silicon, NPN
TR4	EW15X441	2N3904, Silicon, NPN
TR5	EW15X447	2N5771, Silicon, PNP
TR6	EW15X445	MPS2369, S/ILICON, NPN
TR7	EW15X441	2N3904, Silicon, NPN
TR8	EW15X441	2N3904, Silicon, NPN
TR9	EW15X441	2N3904, Silicon, NPN
TR10	EW15X443	2SD667A, Silicon, NPN, 100V
TR11	EW15X442	2N5550, NPN, Silicon, 140V
TR12	EW15X441	2N3904, Silicon, NPN
TR13	EW15X441	2N3904, Silicon, NPN
TR14	EW15X441	2N3904, Silicon, NPN
TR15	EW15X441	2N3904, Silicon, NPN
TR16	EW15X441	2N3904, Silicon, NPN
TR17	EW15X441	2N3904, Silicon, NPN
TR18	EW15X446	2N3906, Silicon, PNP
TR19	EW15X441	2N3904, Silicon, NPN
TR20	EW15X441	2N3904, Silicon, NPN
TR21	EW15X441	2N3904, Silicon, NPN
TR22	EW15X441	2N3904, Silicon, NPN
TR23	EW15X446	2N3906, Silicon, PNP
TR24	EW15X441	2N3904, Silicon, NPN
TR25	EW15X446	2N3906, Silicon, PNP
TR26	EW15X441	2N3904, Silicon, NPN
TR27	EW15X441	2N3904, Silicon, NPN
TR28	EW15X446	2N3906, Silicon, PNP
TR29	EW15X441	2N3904, Silicon, NPN
TR30	EW15X446	2N3906, Silicon, PNP
TR31	EW15X441	2N3904, Silicon, NPN
TR32	EW15X441	2N3904, Silicon, NPN
TR33	EW15X446	2N3906, Silicon, PNP
TR34	EW15X441	2N3904, Silicon, NPN
TR35	EW15X441	2N3904, Silicon, NPN
TR36	EW15X441	2N3904, Silicon, NPN
TR37	EW15X446	2N3906, Silicon, PNP
TR38	EW15X441	2N3904, Silicon, NPN
TR39	EW15X446	2N3906, Silicon, PNP
TR40	EW15X441	2N3904, Silicon, NPN
TR41	EW15X441	2N3904, Silicon, NPN
TR42	EW15X446	2N3906, Silicon, PNP
TR43	EW15X441	2N3904, Silicon, NPN

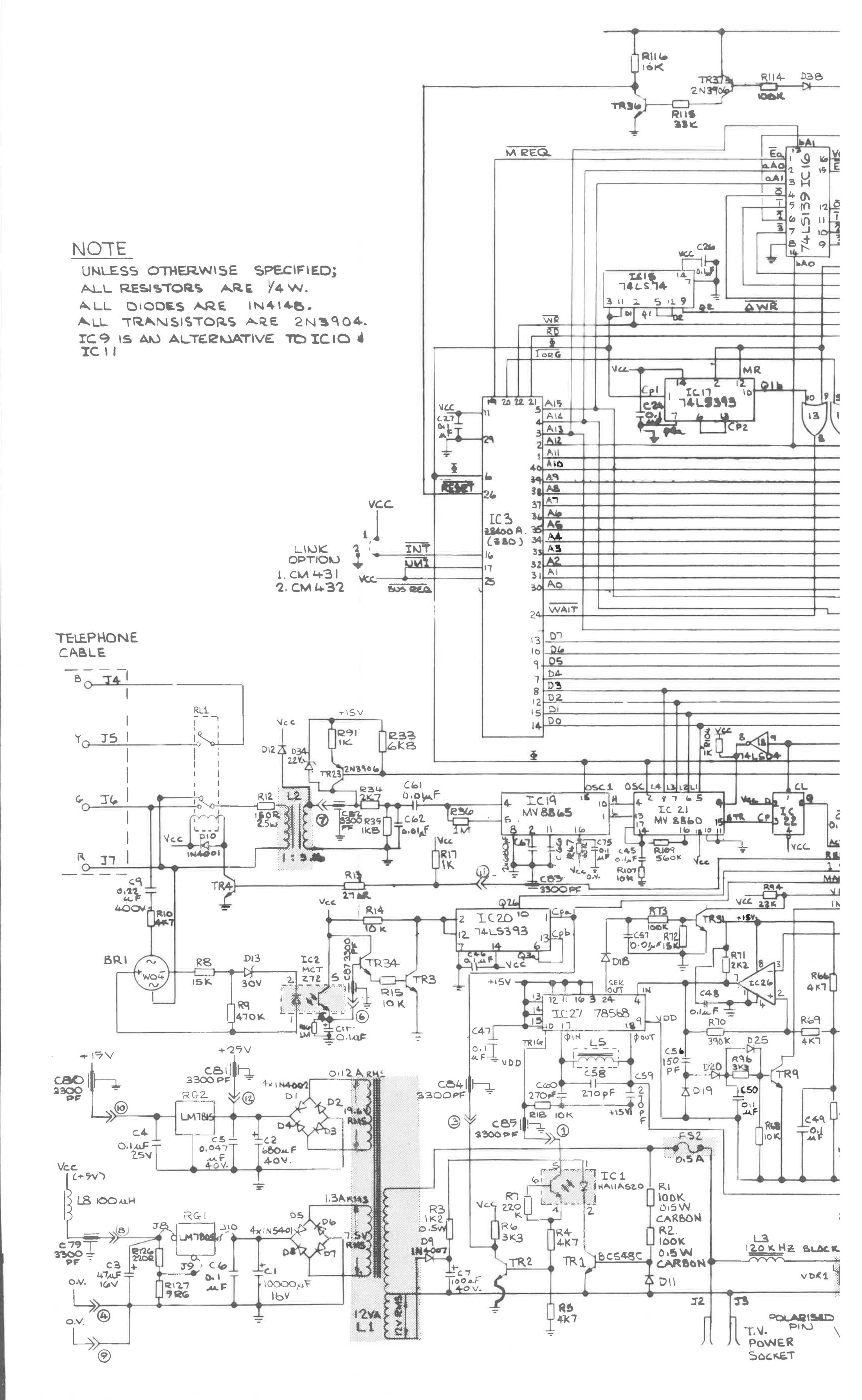
MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
FB1	EW12X5	FERRITE BEAD
★FS1	EW10X58	FUSE-0.5 AMP, 250V, SLOW BLOW
★FS2	EW10X59	FUSE-0.5 AMP, 250V, FAST BLOW
RL1	EW41X387	RELAY
XT1	EW41X383	CRYSTAL-32.768K hz
XT2	EW41X384	CRYSTAL-10.7386meg hz
A	EW97X177	CABINET
BR1	EW57X8	RECTIFIER-Bridge
BT1	EW58X7	BATTERY-3.6 Volt
BZ1	EW41X385	BUZZER
J1	EW34X36	SOCKET-Power Cord, Polarized
J4-7	EW34X37	SOCKET-Telephone
D	EW41X386	POWER CORD BUSHING ASSEMBLY
E	EW62X83	REGULATOR, +5V, ASSEMBLY
F	EW84X663	LM7805, 1amp, 5V, Regulator
H	EW62X82	CONTROL BOX ASSEMBLY
SK3	EW34X38	SOCKET-IC
SK4	EW34X38	SOCKET-IC
SK5	EW34X38	SOCKET-IC
P1	EP8X139	BYPASS PLUG
	EP62X186	REMOTE CONTROL
	EP90X55	HOMEMINDER COMPLETE ASSEMBLY
★VDR1	EW14X363	VDR-V130LA2

IMPORTANT SAFETY NOTICE

Product safety should be considered when component replacement is made in any area of a receiver. The (★) beside a part in the parts list and the shaded areas of the schematic diagram designates components in which safety can be of special significance. It is particularly recommended that exact cataloged parts be used for replacement of components which are designated by a (★) in the parts list and the shaded areas on the schematic diagram. Use of substitute replacement parts which do not have the same safety characteristics as recommended in factory service information may create Shock, Fire or other hazards, or excessive X-Radiation.

HomeMinder™ SCHEMATIC DIAGRAM



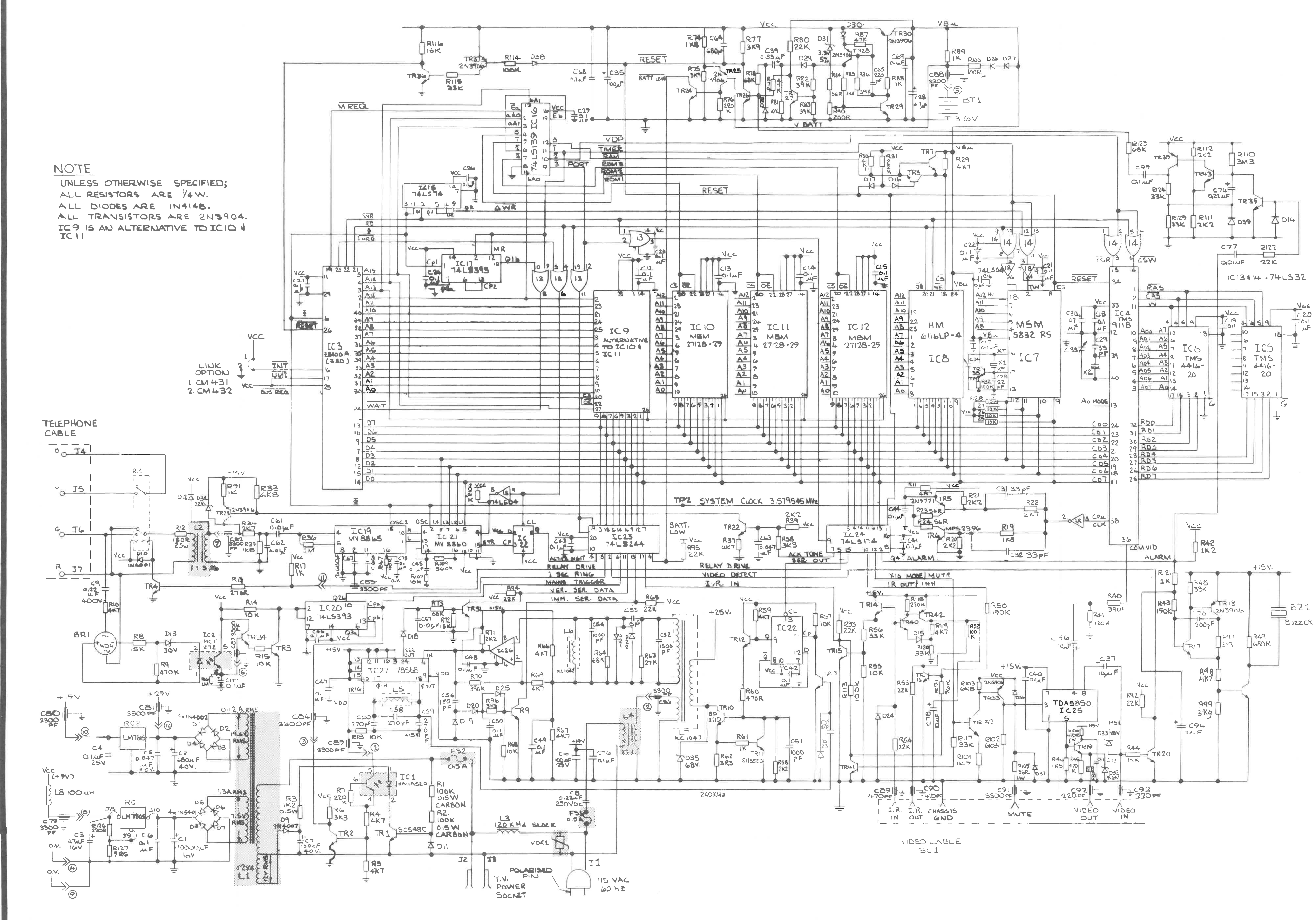
).	PART NO.	DESCRIPTION
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	EW15X446	2N3906, Silicon, PNP
	EW15X441	2N3904, Silicon, NPN
	EW15X441	2N3904, Silicon, NPN
	EW15X446	2N3906, Silicon, PNP
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	EW15X441	2N3904, Silicon, NPN
	EW15X446	2N3906, Silicon, PNP
	EW15X441	2N3904, Silicon, NPN
	EW15X446	2N3906, Silicon, PNP
	EW15X441	2N3904, Silicon, NPN
	EW15X441	2N3904, Silicon, NPN
	EW15X446	2N3906, Silicon, PNP
	EW15X441	2N3904, Silicon, NPN

MISCELLANEOUS

).	PART NO.	DESCRIPTION
	EW12X5	FERRITE BEAD
	EW10X58	FUSE-0.5 AMP, 250V, SLOW BLOW
	EW10X59	FUSE-0.5 AMP, 250V, FAST BLOW
	EW41X387	RELAY
	EW41X383	CRYSTAL-32.768K hz
	EW41X384	CRYSTAL-10.7386meg hz
	EW97X177	CABINET
	EW57X8	RECTIFIER-Bridge
	EW58X7	BATTERY-3.6 Volt
	EW41X385	BUZZER
	EW34X36	SOCKET-Power Cord, Polarized
	EW34X37	SOCKET-Telephone
	EW41X386	POWER CORD BUSHING ASSEMBLY
	EW62X83	REGULATOR, +5V, ASSEMBLY
	EW84X663	LM7805, 1amp, 5V, Regulator
	EW62X82	CONTROL BOX ASSEMBLY
	EW34X38	SOCKET-IC
	EW34X38	SOCKET-IC
	EW34X38	SOCKET-IC
	EP8X139	BYPASS PLUG
	EP62X186	REMOTE CONTROL
	EP90X55	HOMEMINDER COMPLETE ASSEMBLY
	EW14X363	VDR-V130LA2

art in the parts list and
ticularly recommended
areas on the schematic
ervice information may

HomeMinder™ SCHEMATIC DIAGRAM



HOMEMINDER

MINI-MANUAL

SERVICE INFORMATION FOR TECHNICIAN USE ONLY

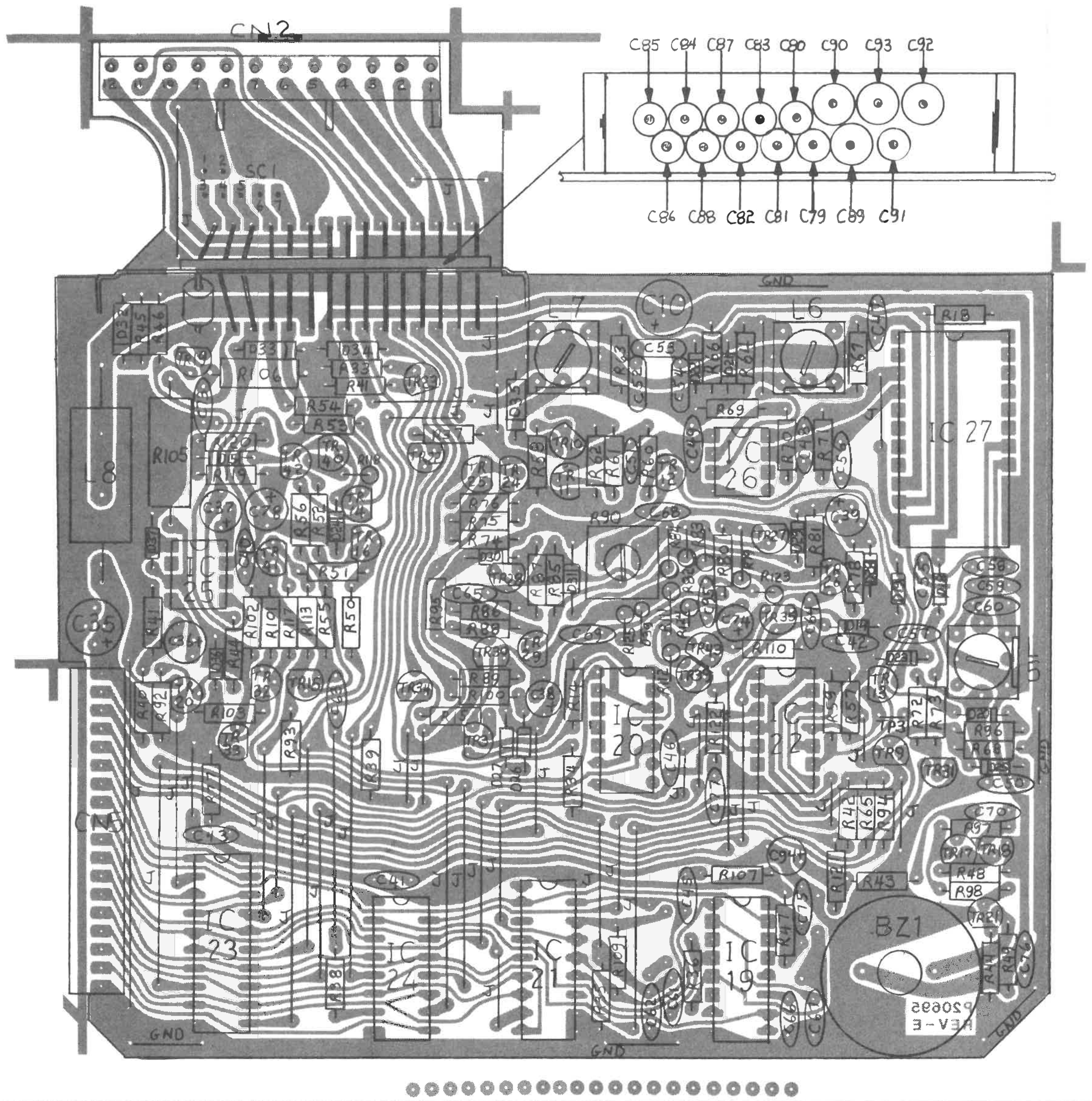
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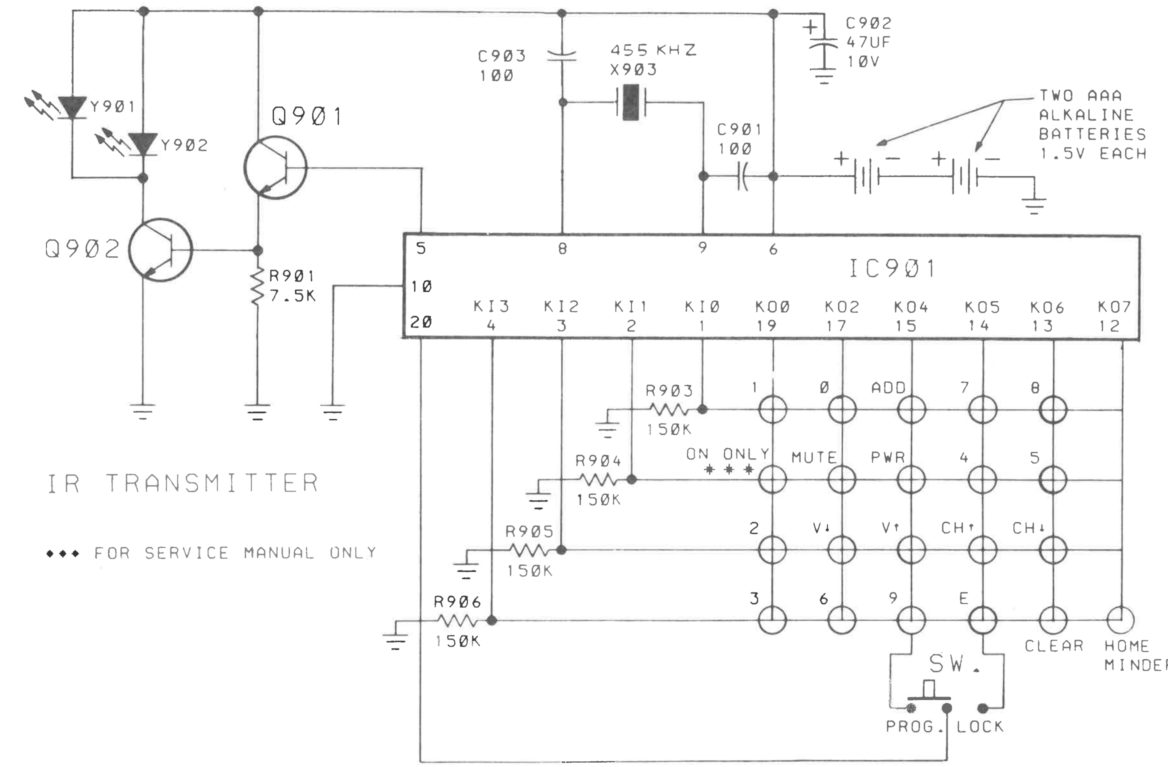
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NOTICE TO TECHNICIAN:

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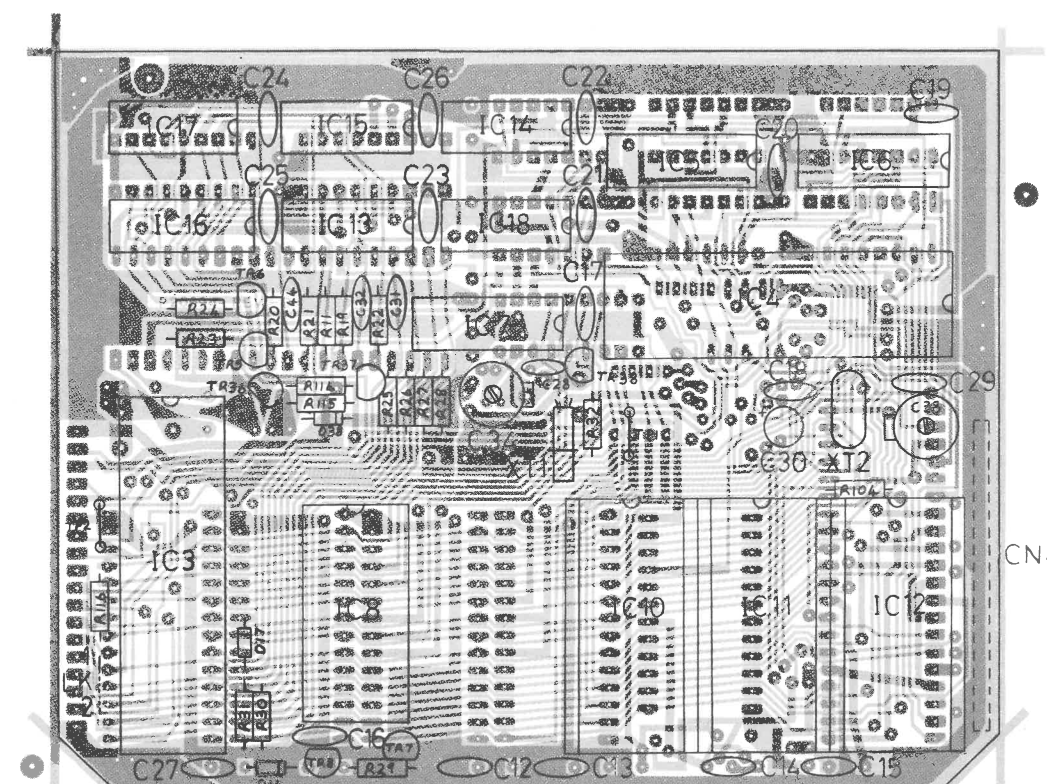
COMPONENT LOCATIONS ANALOG BOARD



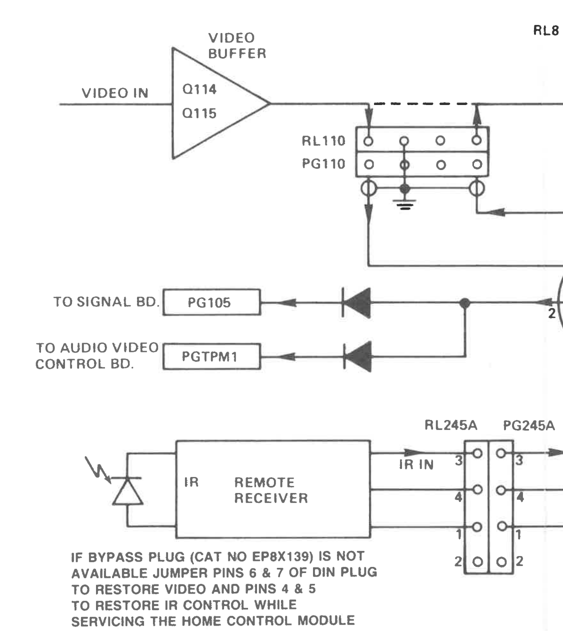


EP62X186 IR TRANSMITTER

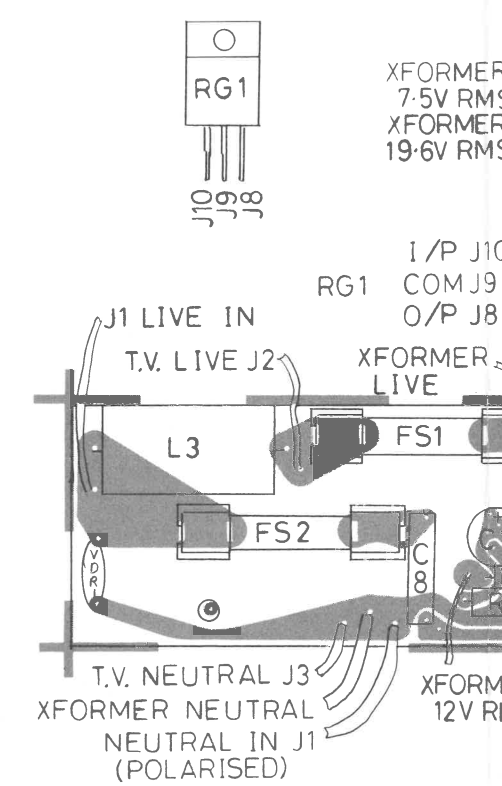
COMPONENT LOCATIONS DIGITAL BOARD

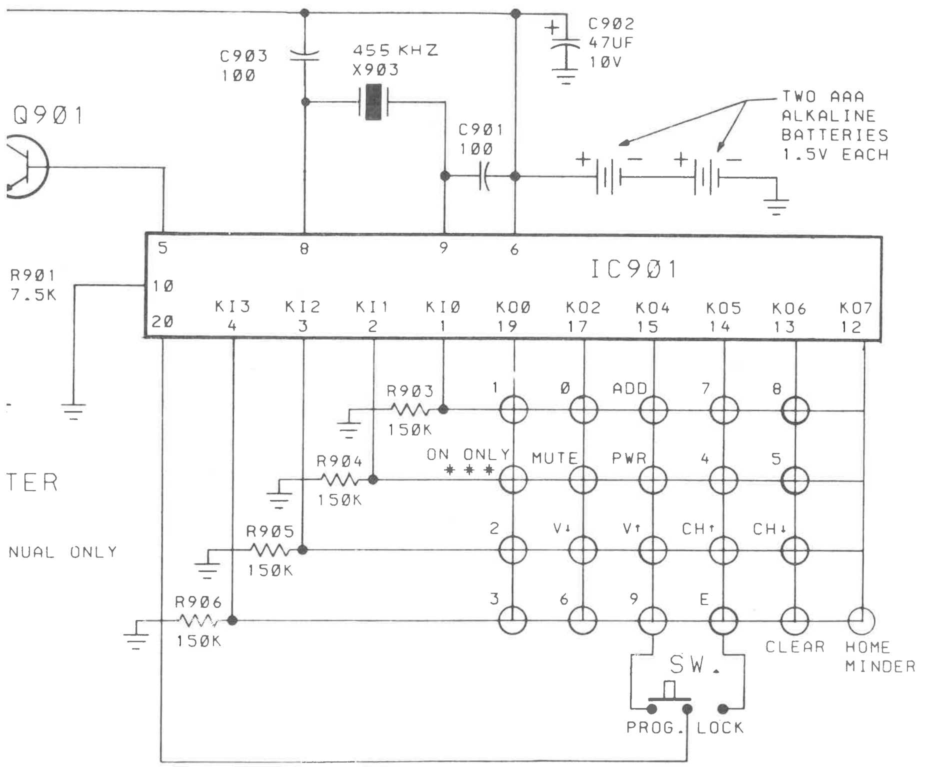


HomeMinder™ INTERFACE



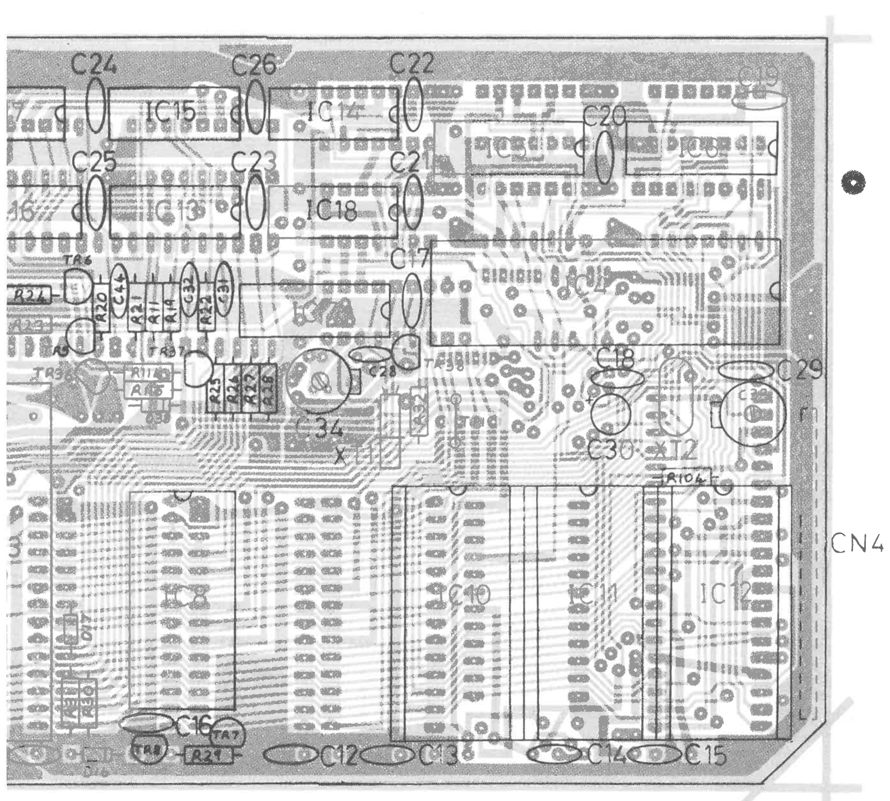
COMPONENT LOCATIONS POWER SUPPLY BOARD



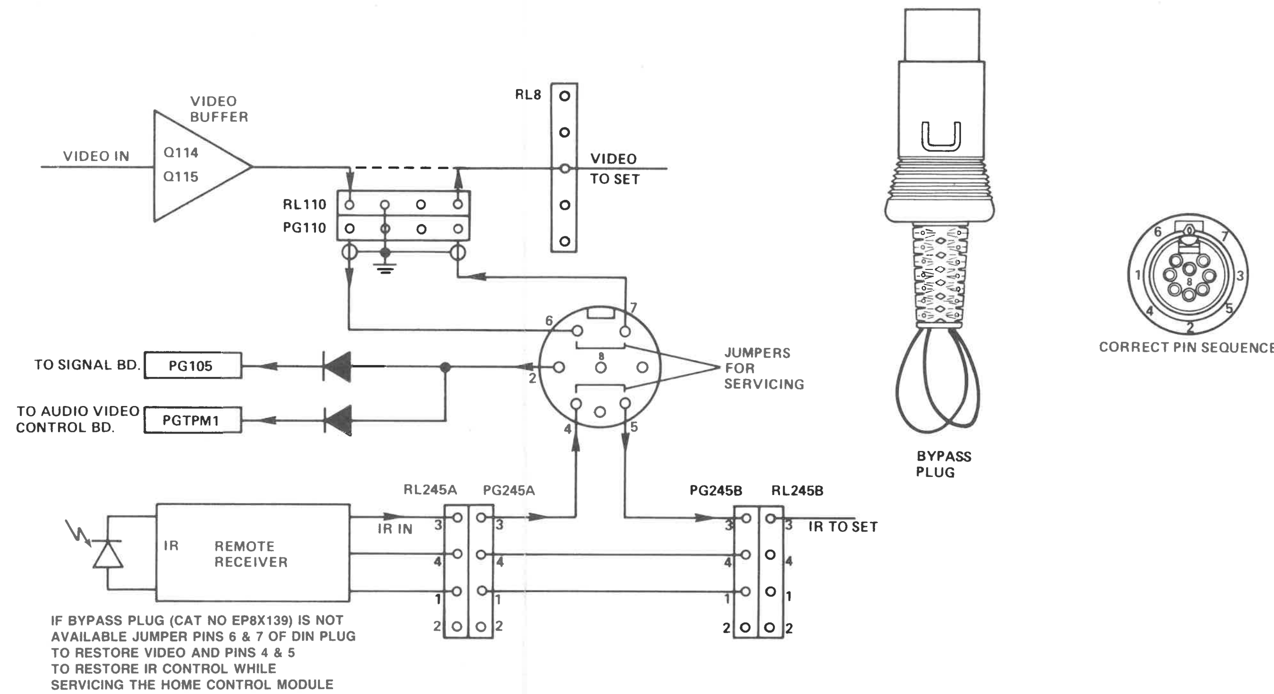


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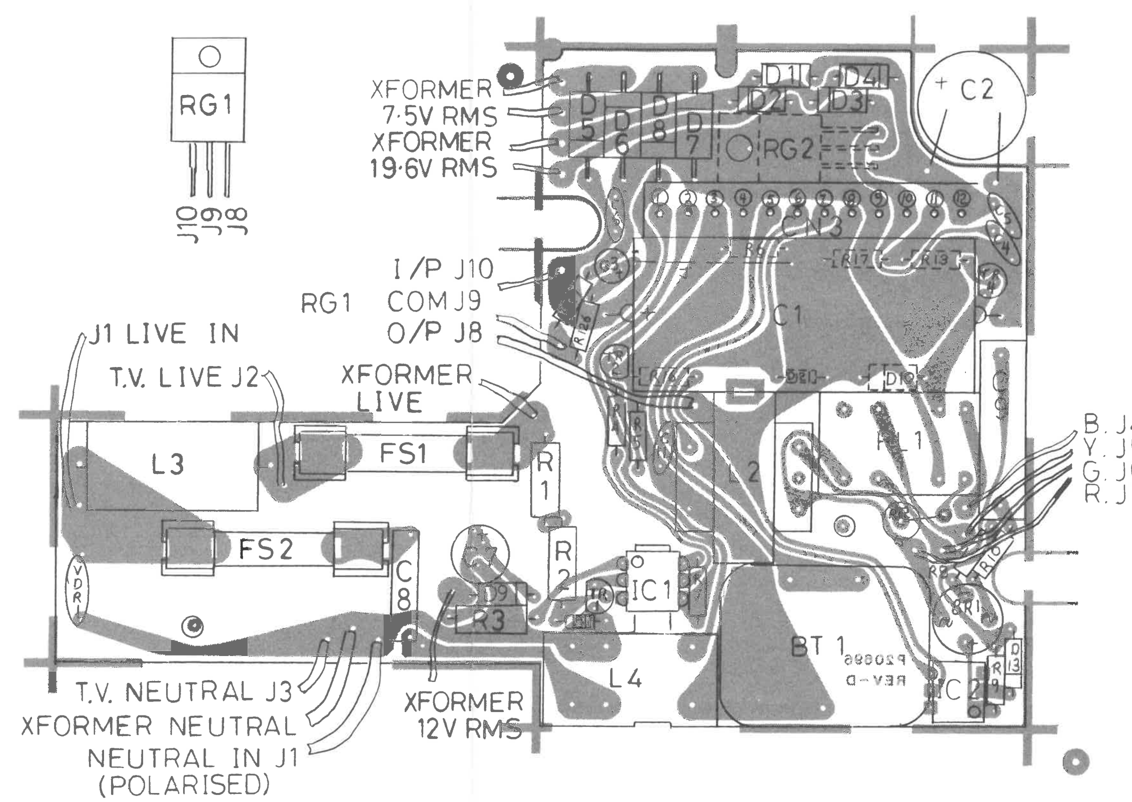
; DIGITAL BOARD



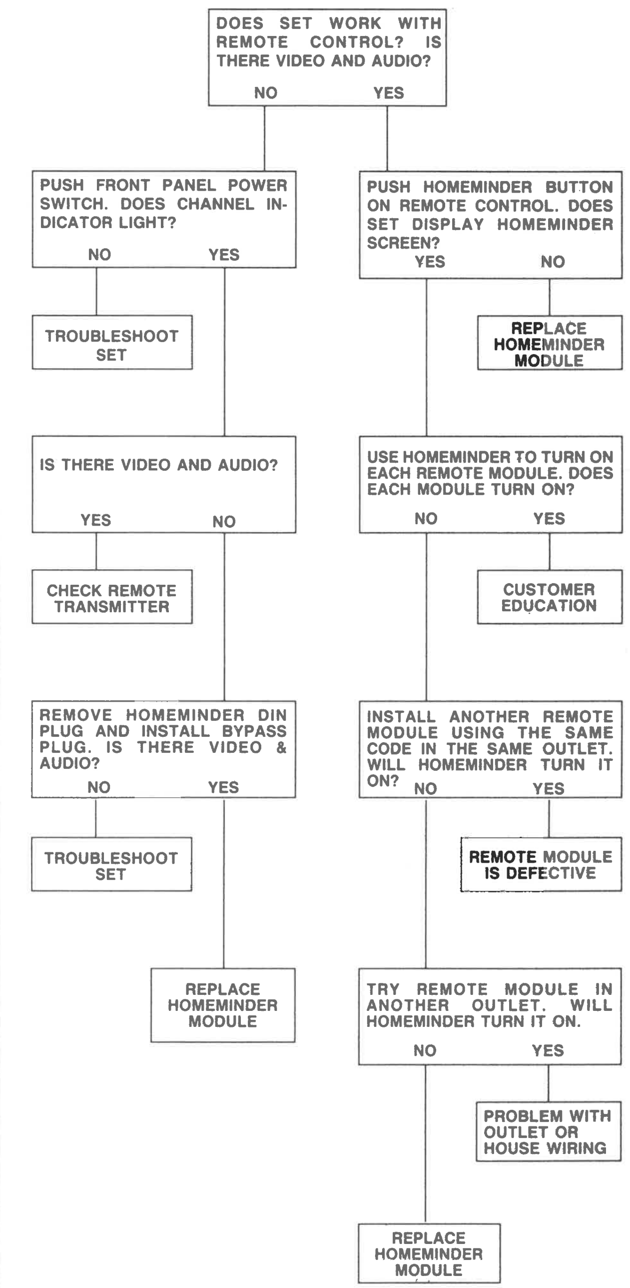
HomeMinder™ INTERFACE



COMPONENT LOCATIONS POWER SUPPLY BOARD



TROUBLESHOOTING FLOW CHART



19"/25"/26" PM-D CHASSIS

MINI-MANUAL

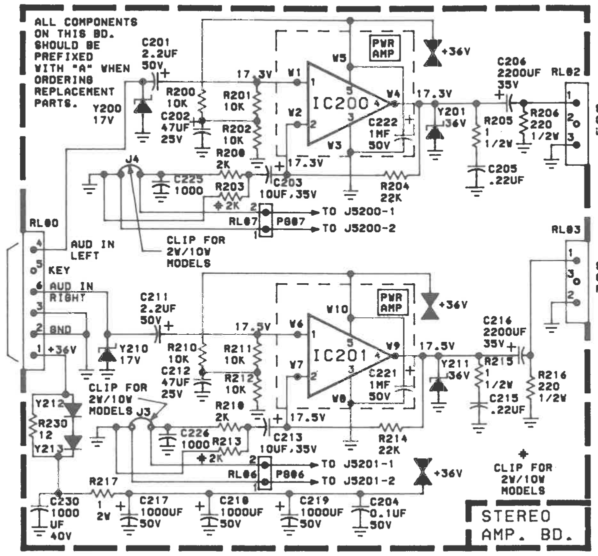
SERVICE INFORMATION
FOR TECHNICIAN
USE ONLY

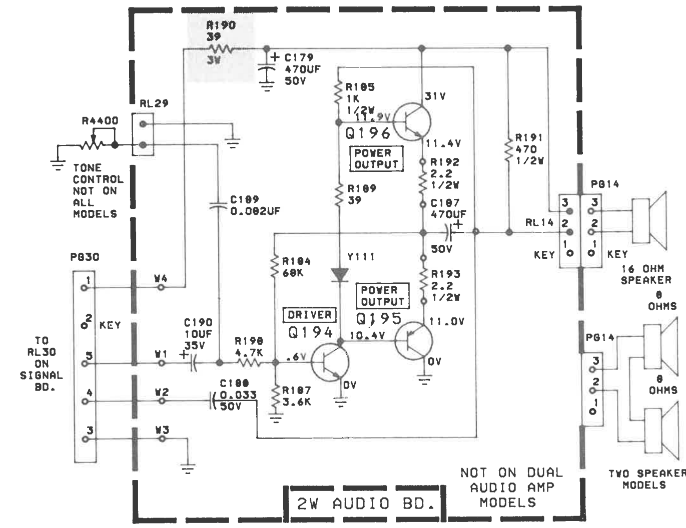
ACCESSIBLE FROM INSIDE
TV SET ONLY

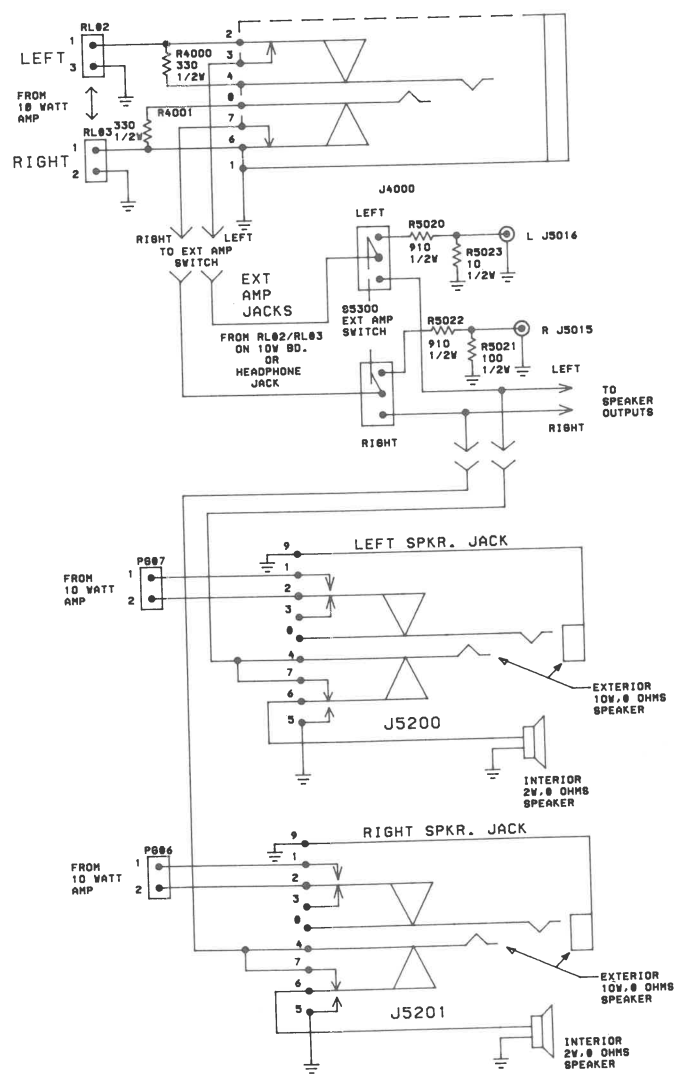
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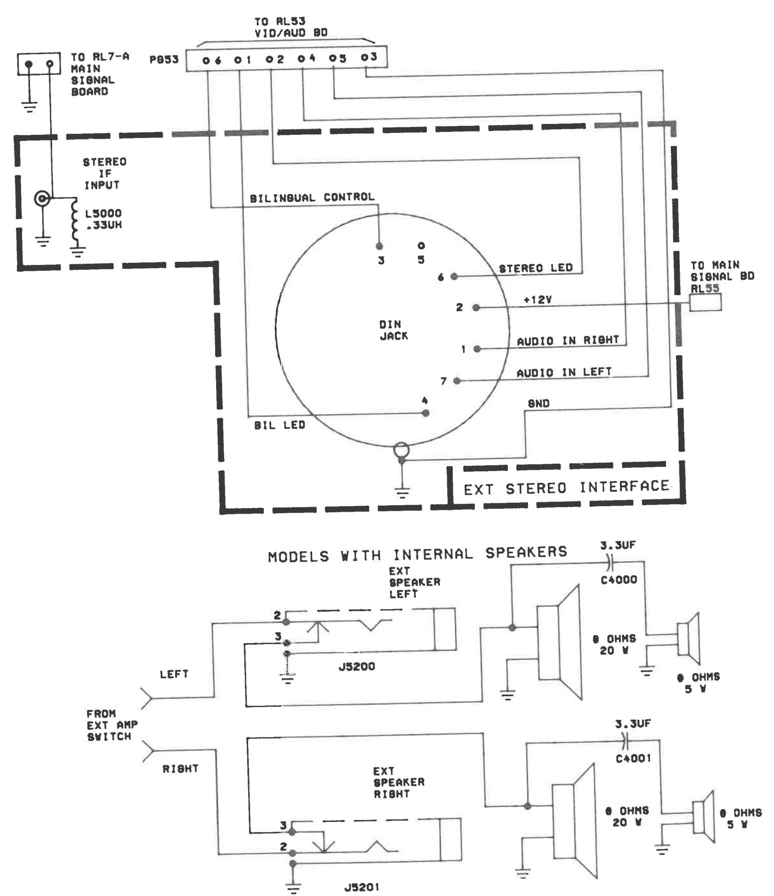
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THIS MINI-MANUAL IS CUSTOMER PROPERTY, PLEASE RETURN TO SET WHEN SERVICING IS COMPLETED.







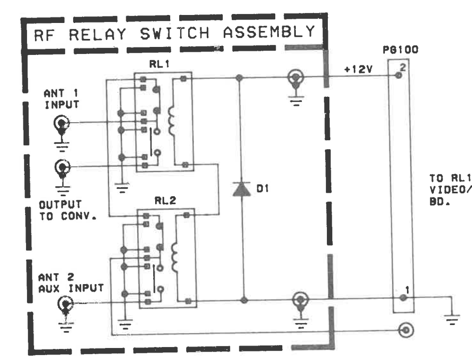


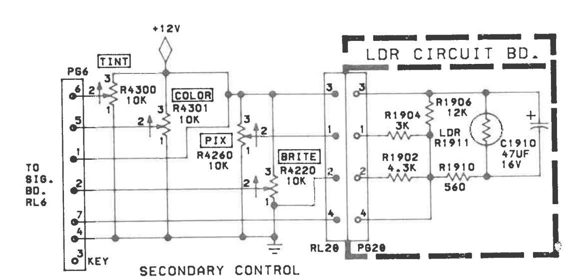
73E262657 SH 4 REV 0

IMPORTANT SAFETY NOTICE

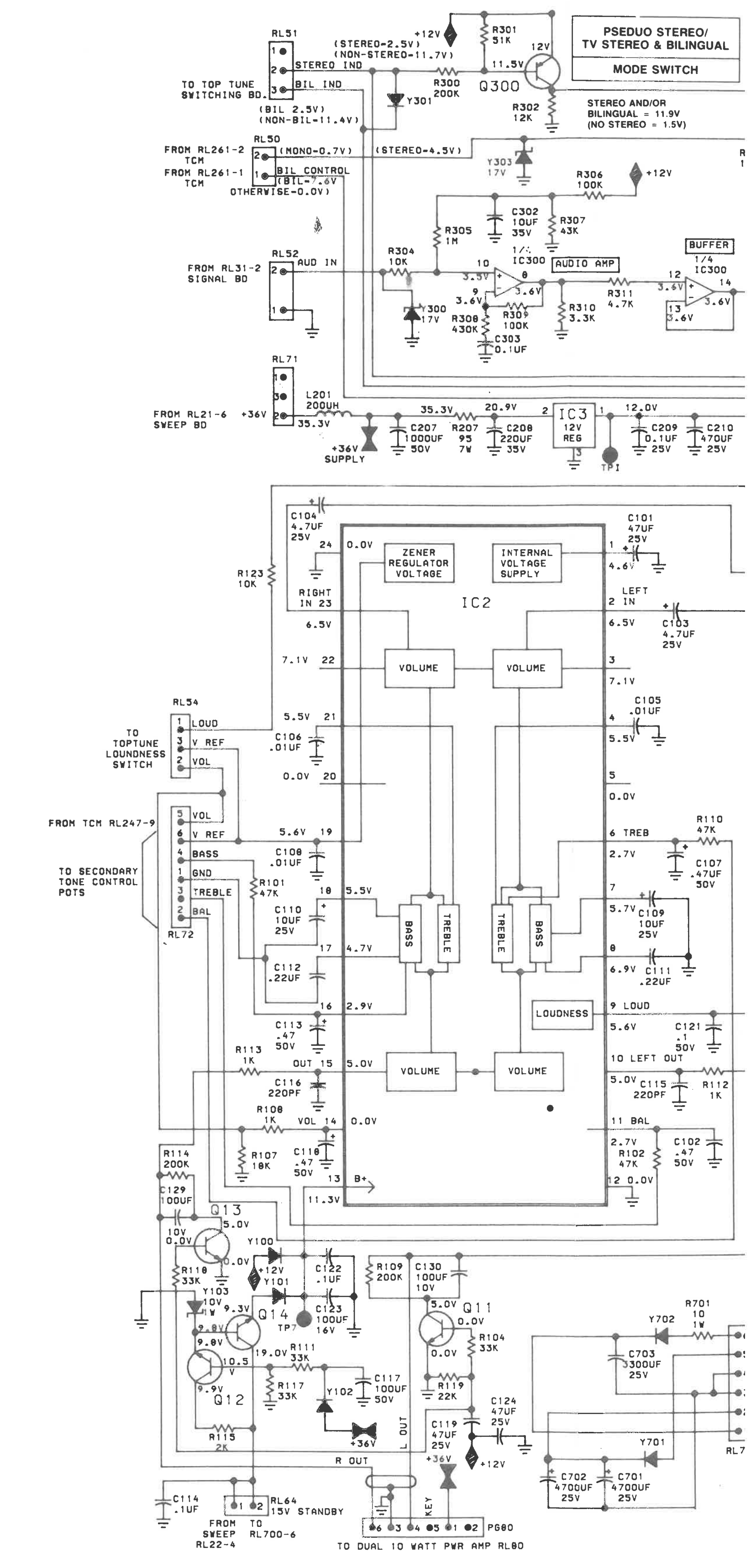
Product safety should be considered when component replacement is made in any area of a receiver. The (★) beside a part in the parts list and the shaded areas of the schematic diagram designates components in which safety can be of special significance. It is particularly recommended that exact cataloged parts be used for replacement of components which are designated by a (★) in the parts list and the shaded areas on the schematic diagram.

Use of substitute replacement parts which do not have the same safety characteristics as recommended in factory service information may create Shock, Fire or other hazards, or excessive X-Radiation.

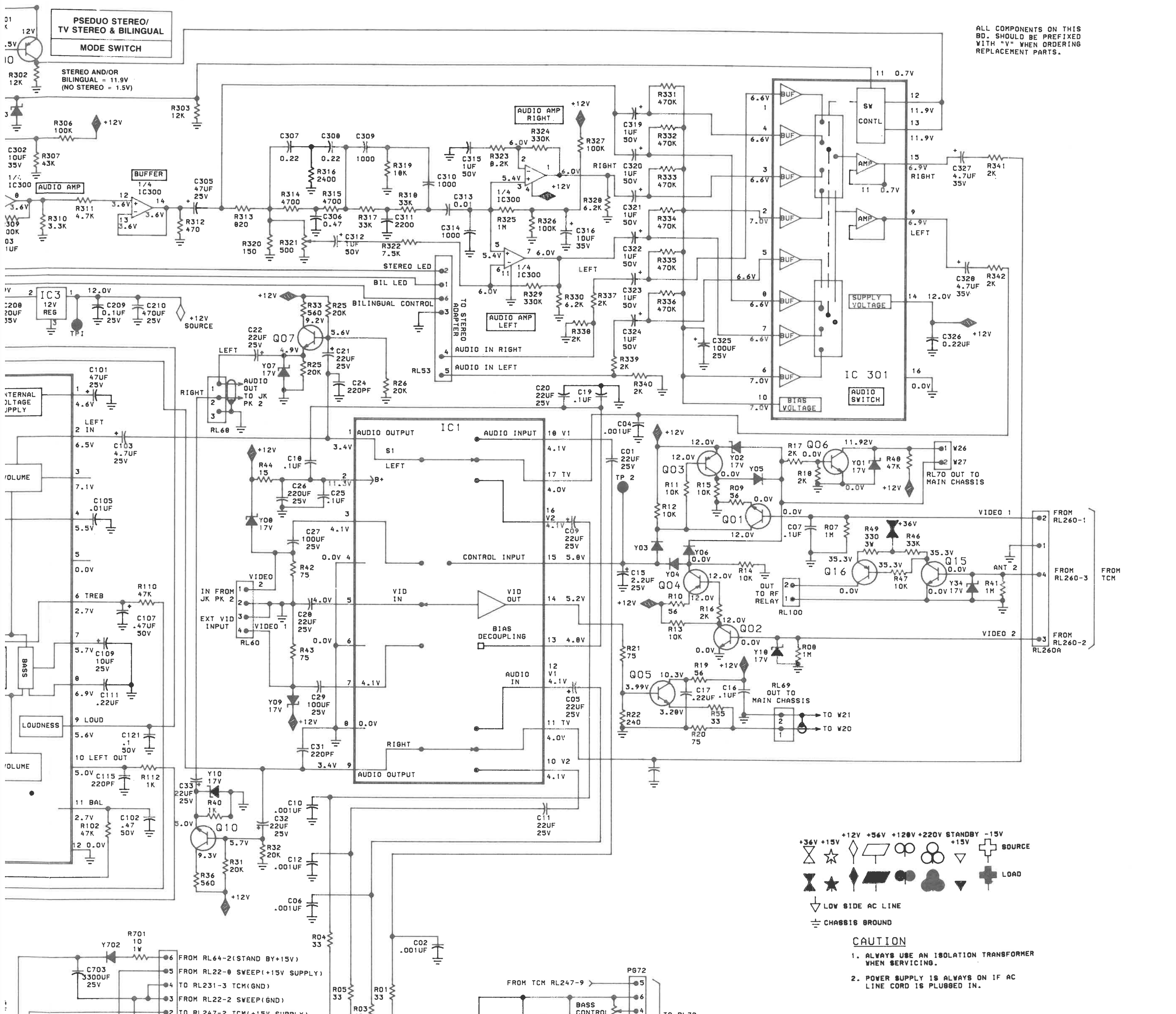




PM CHASSIS - RF RELAY SW. ASM., STEREO AMP. BD., EXT. STEREO INTERFACE SCHEMATIC DIAGRAMS PLUS SPEAKER CONNECTIONS

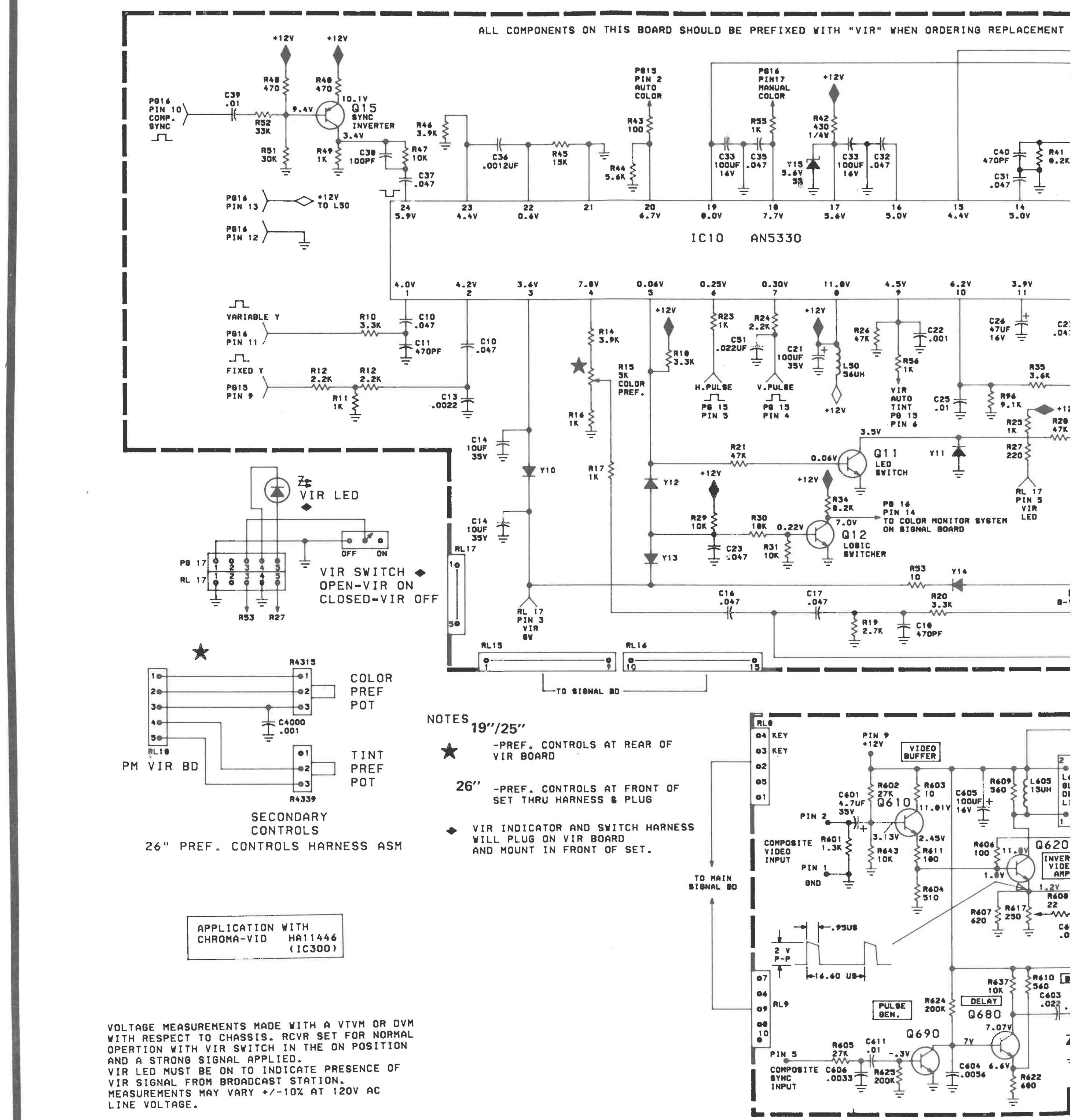


PM CHASSIS - AUDIO/VIDEO CONTROL BOARD



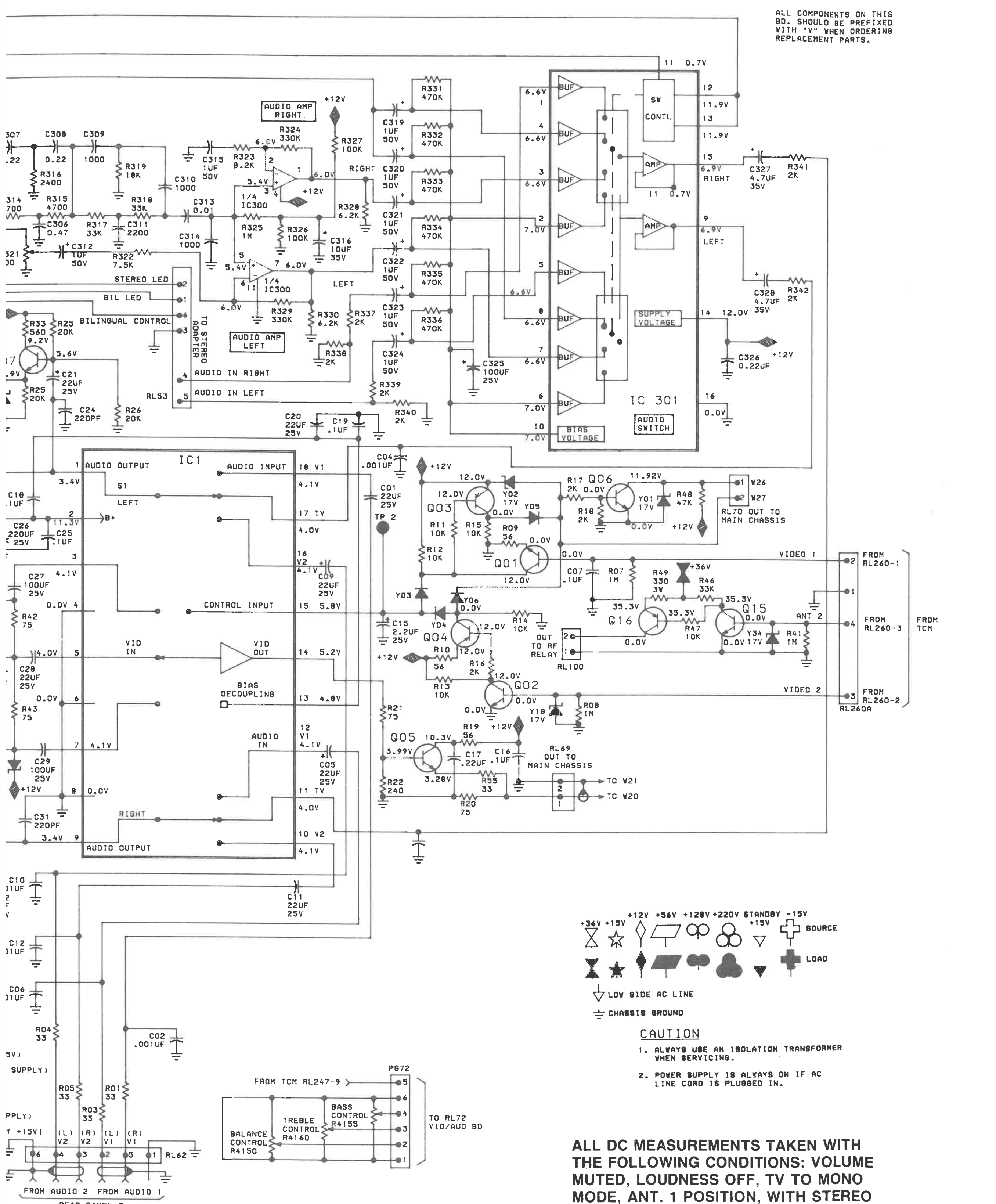
ALL DC MEASUREMENTS TAKEN WITH THE FOLLOWING CONDITIONS: VOLUME MUTED, LOUDNESS OFF, TV TO MONO MODE, ANT. 1 POSITION, WITH STEREO TRANSMISSION.

O CONTROL BOARD WITH SOUND PLUS™ (PSEUDO STEREO) SCHEMATIC DIAGRAM



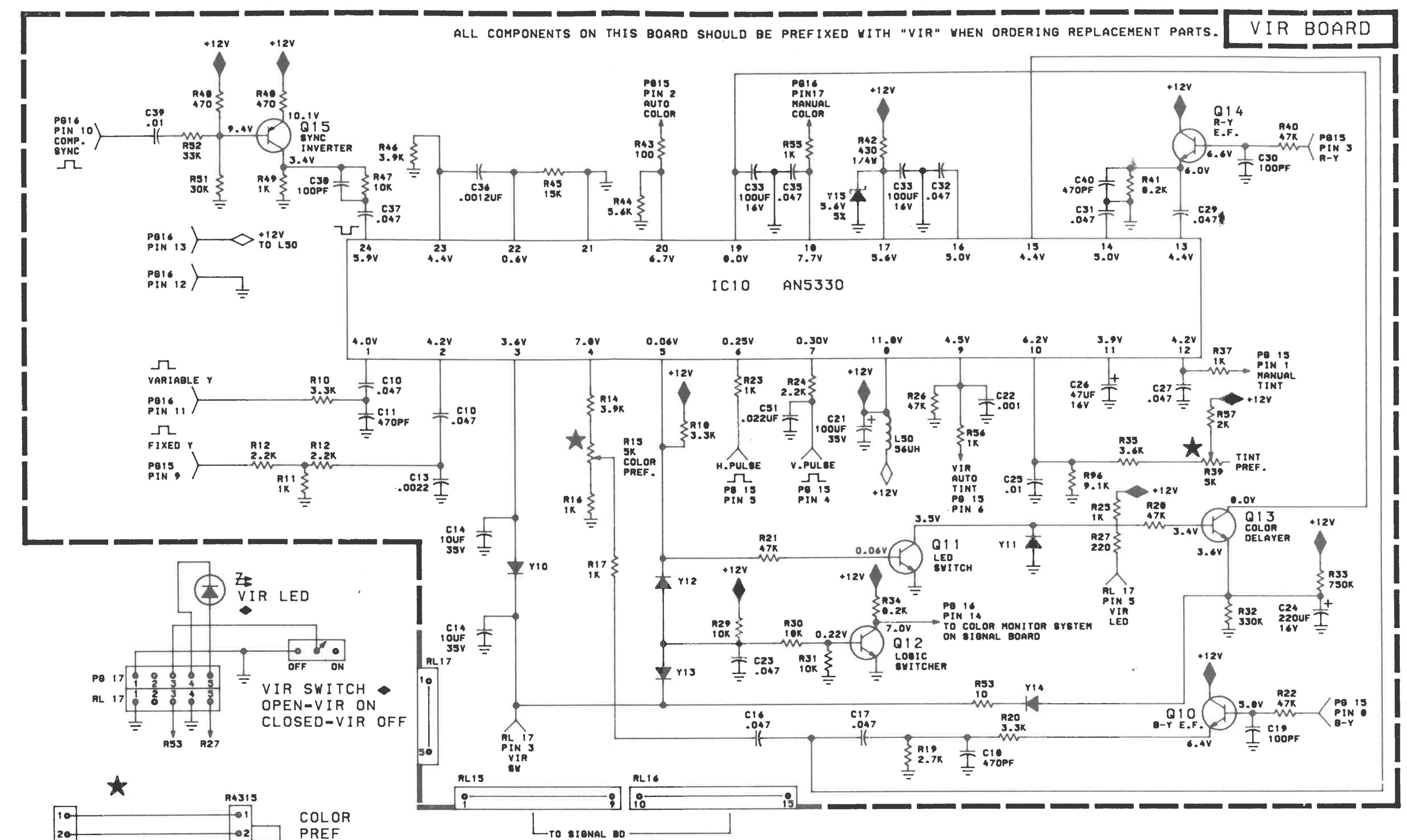
SEE MINI-MANUAL SUPPLEMENT FOR THE FOLLOWING INFORMATION: (IMPORTANT — SAFETY INFORMATION)/(PARTIAL REPLACEMENT PARTS LIST)

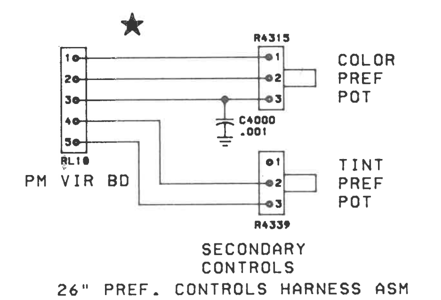
PM CHASSIS VIR BOARD AND COMB-FILTER BOARD SCHEMATIC DIAGRAMS



ALL DC MEASUREMENTS TAKEN WITH THE FOLLOWING CONDITIONS: VOLUME MUTED, LOUDNESS OFF, TV TO MONO MODE, ANT. 1 POSITION, WITH STEREO TRANSMISSION.

) PLUS™ (PSEUDO STEREO) SCHEMATIC DIAGRAM





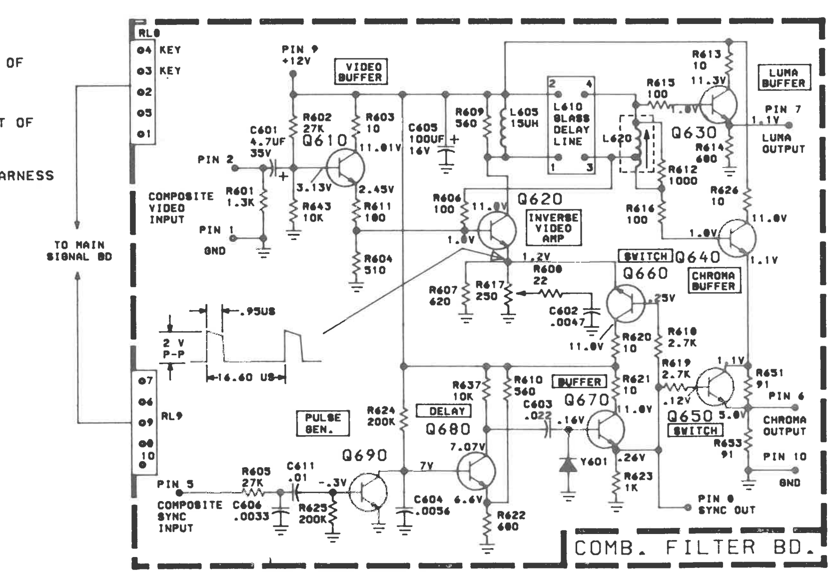
NOTES 19"/25"

★ -PREF. CONTROLS AT REAR OF VIR BOARD

26" -PREF. CONTROLS AT FRONT OF SET THRU HARNESS & PLUG

◆ VIR INDICATOR AND SWITCH HARNESS WILL PLUG ON VIR BOARD AND MOUNT IN FRONT OF SET.

APPLICATION WITH CHROMA-VID HA11446 (IC300)



VOLTAGE MEASUREMENTS MADE WITH A VTVM OR DVM WITH RESPECT TO CHASSIS. RCVR SET FOR NORMAL OPERATION WITH VIR SWITCH IN THE ON POSITION AND A STRONG SIGNAL APPLIED.
VIR LED MUST BE ON TO INDICATE PRESENCE OF VIR SIGNAL FROM BROADCAST STATION.
MEASUREMENTS MAY VARY +/-10% AT 120V AC LINE VOLTAGE.

SEE MINI-MANUAL SUPPLEMENT FOR THE FOLLOWING INFORMATION: (IMPORTANT — SAFETY INFORMATION)/(PARTIAL REPLACEMENT PARTS LIST)

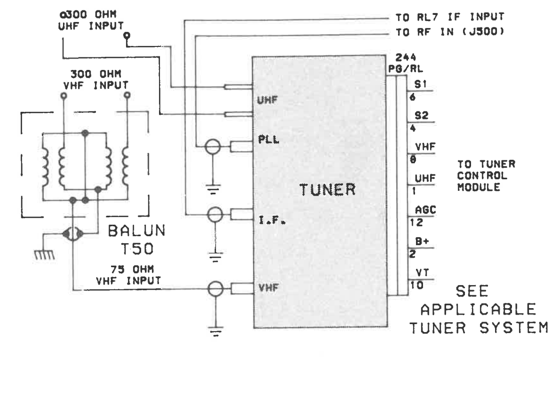
73E261918-5

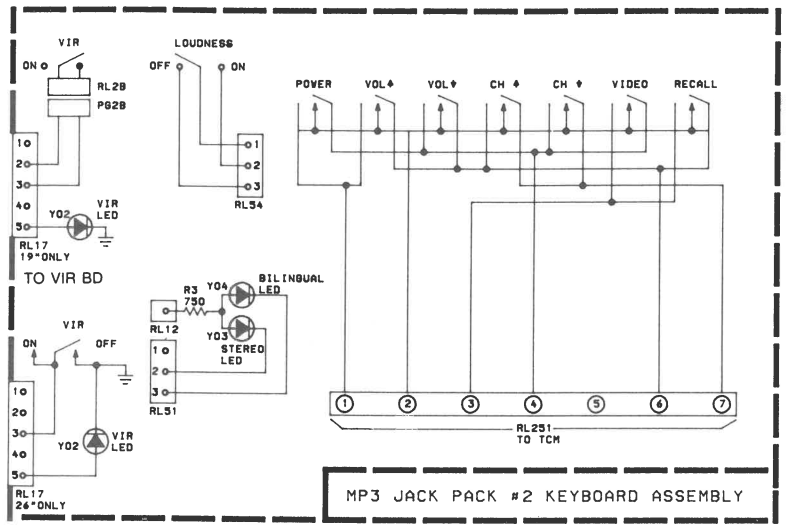
PM CHASSIS VIR BOARD AND COMB-FILTER BOARD SCHEMATIC DIAGRAMS

73E261918-5

19"/25"/26" PM-D CHASSIS

SEE MINI-MANUAL SUPPLEMENT FOR THE FOLLOWING INFORMATION:
(IMPORTANT — SAFETY INFORMATION)/(PARTIAL REPLACEMENT PARTS LIST)

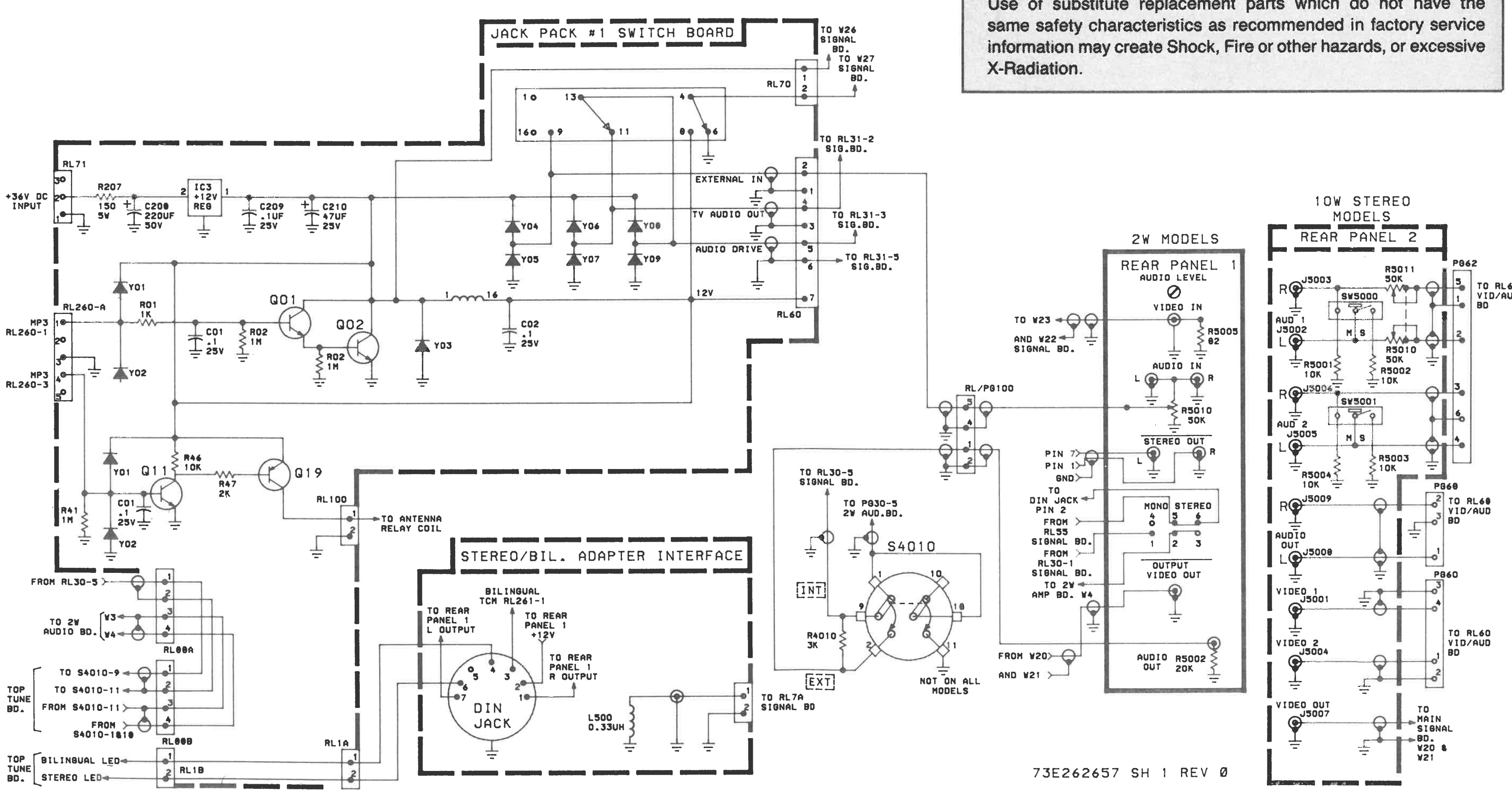




IMPORTANT SAFETY NOTICE

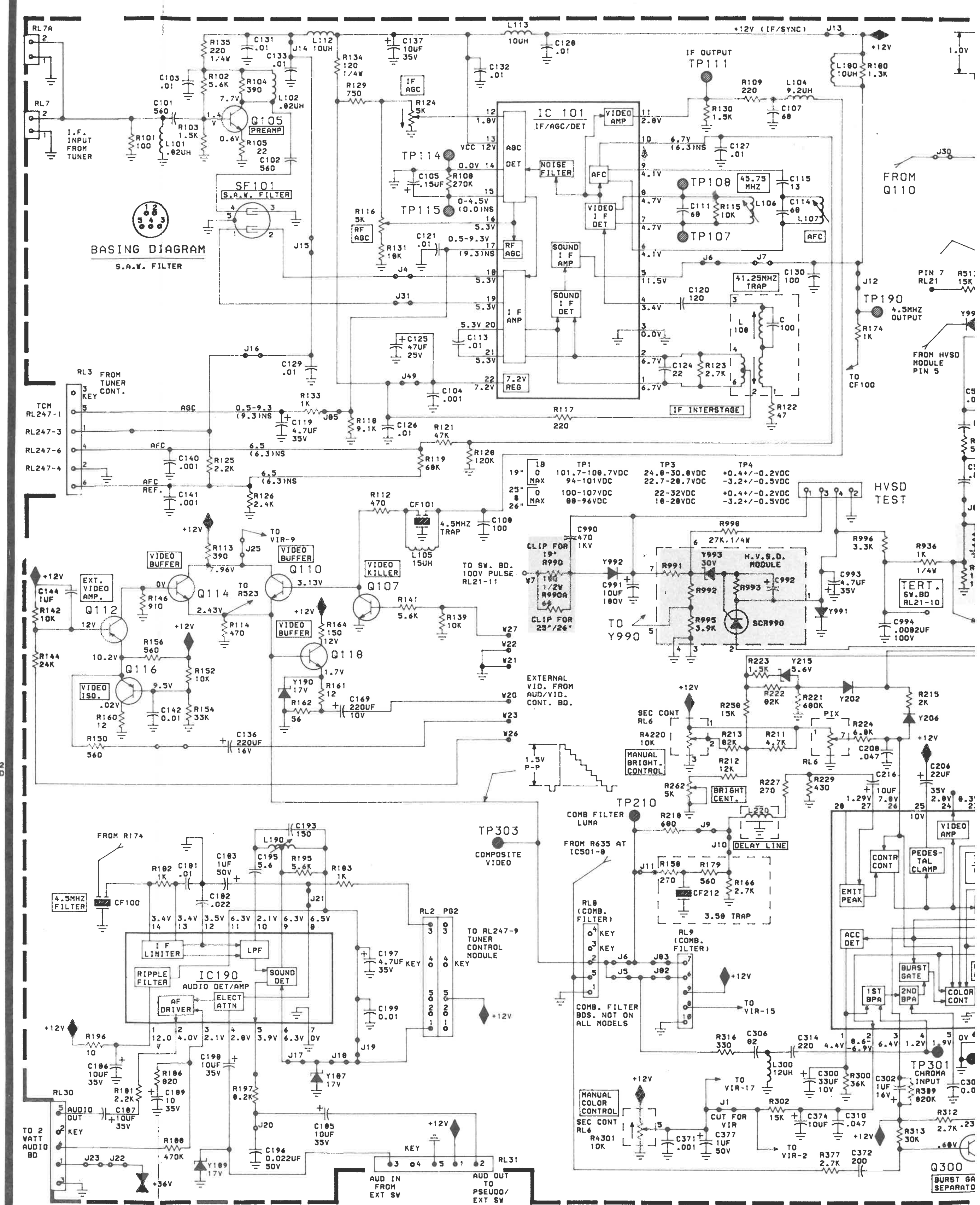
Product safety should be considered when component replacement is made in any area of a receiver. The (★) beside a part in the parts list and the shaded areas of the schematic diagram designates components in which safety can be of special significance. It is particularly recommended that exact cataloged parts be used for replacement of components which are designated by a (★) in the parts list and the shaded areas on the schematic diagram.

Use of substitute replacement parts which do not have the same safety characteristics as recommended in factory service information may create Shock, Fire or other hazards, or excessive X-Radiation.



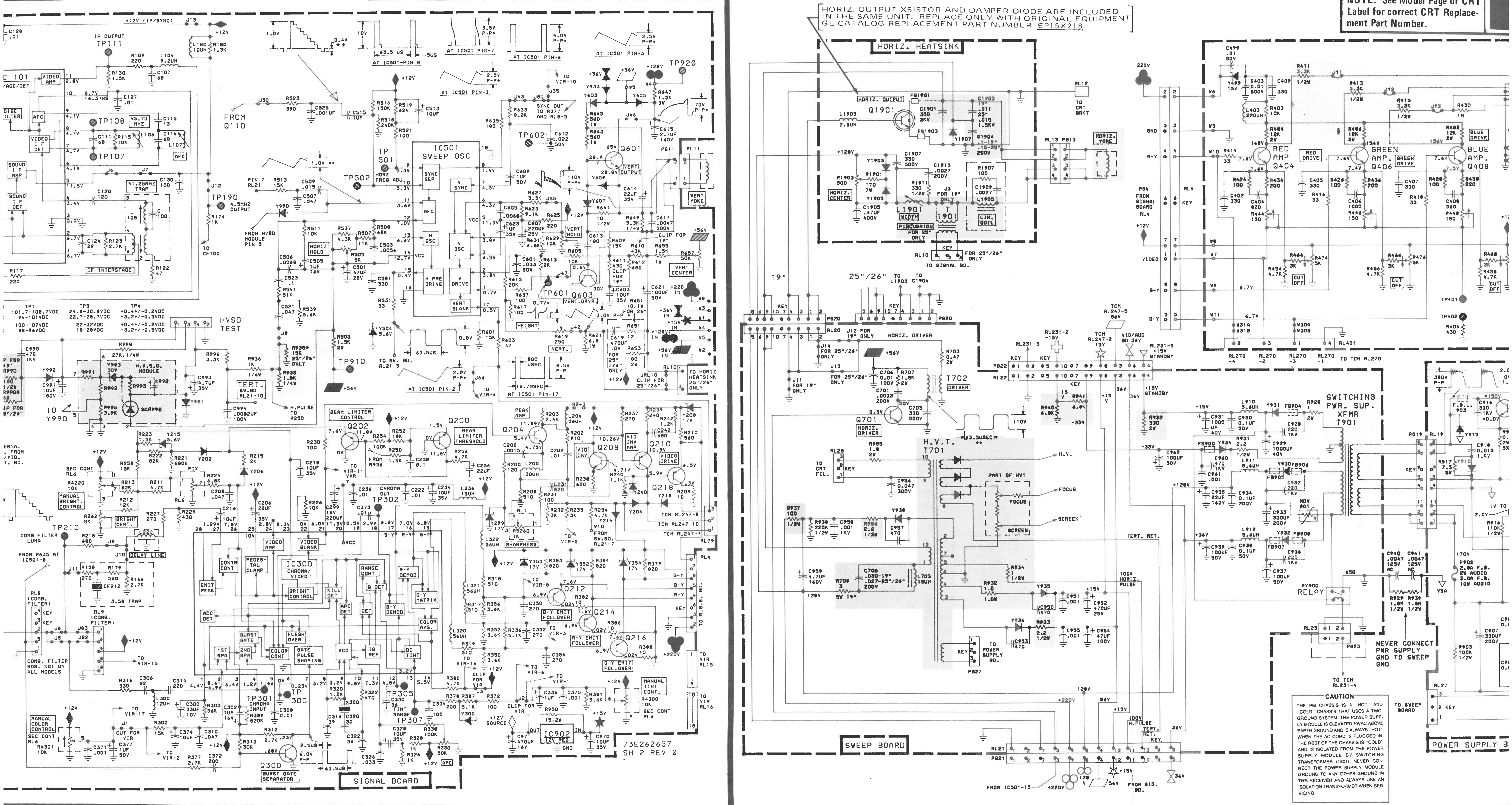
73E262657 SH 1 REV 0

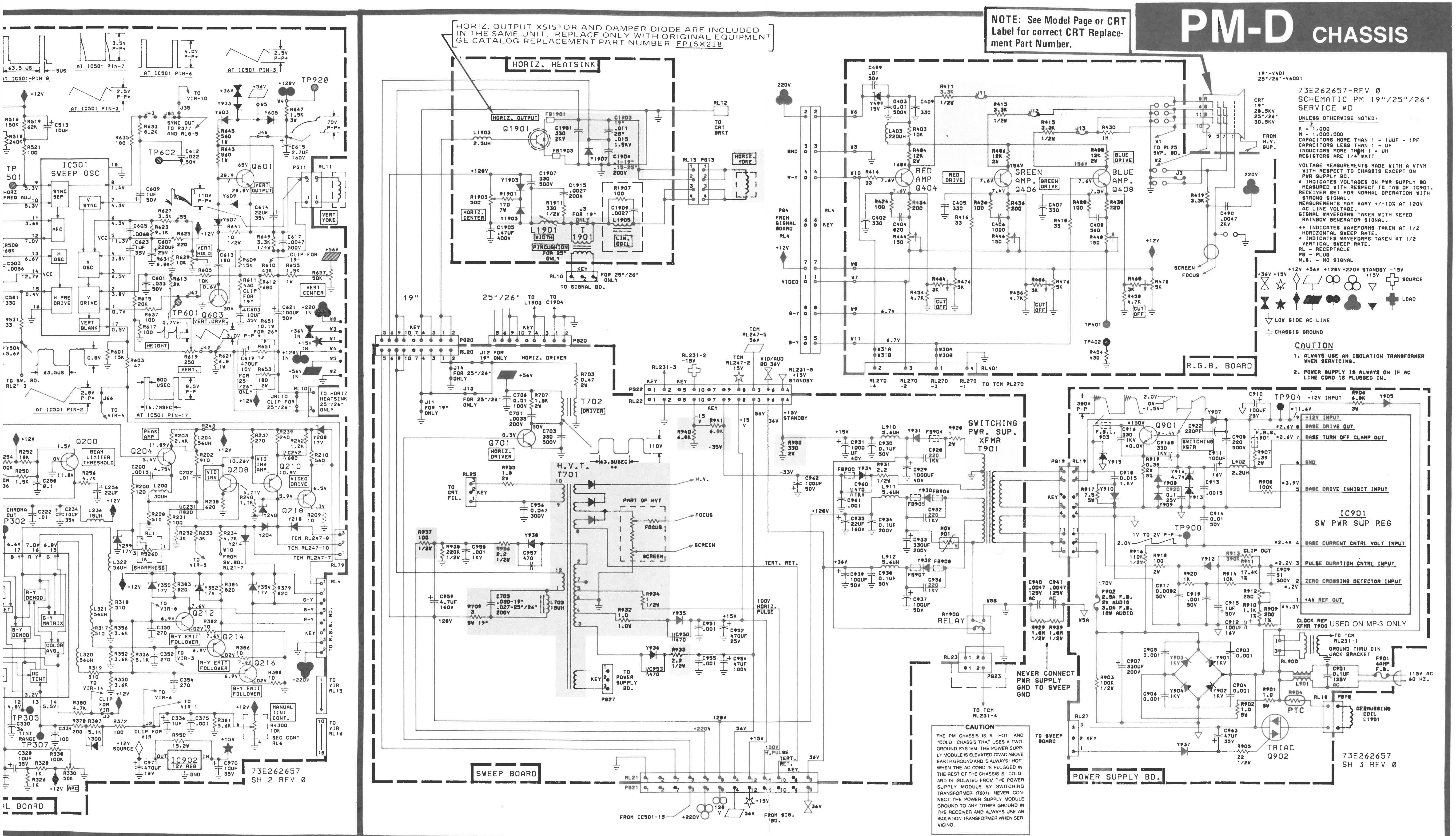
PM-D CHASSIS SCHEMATIC



PM-D CHASSIS SCHEMATIC DIAGRAMS

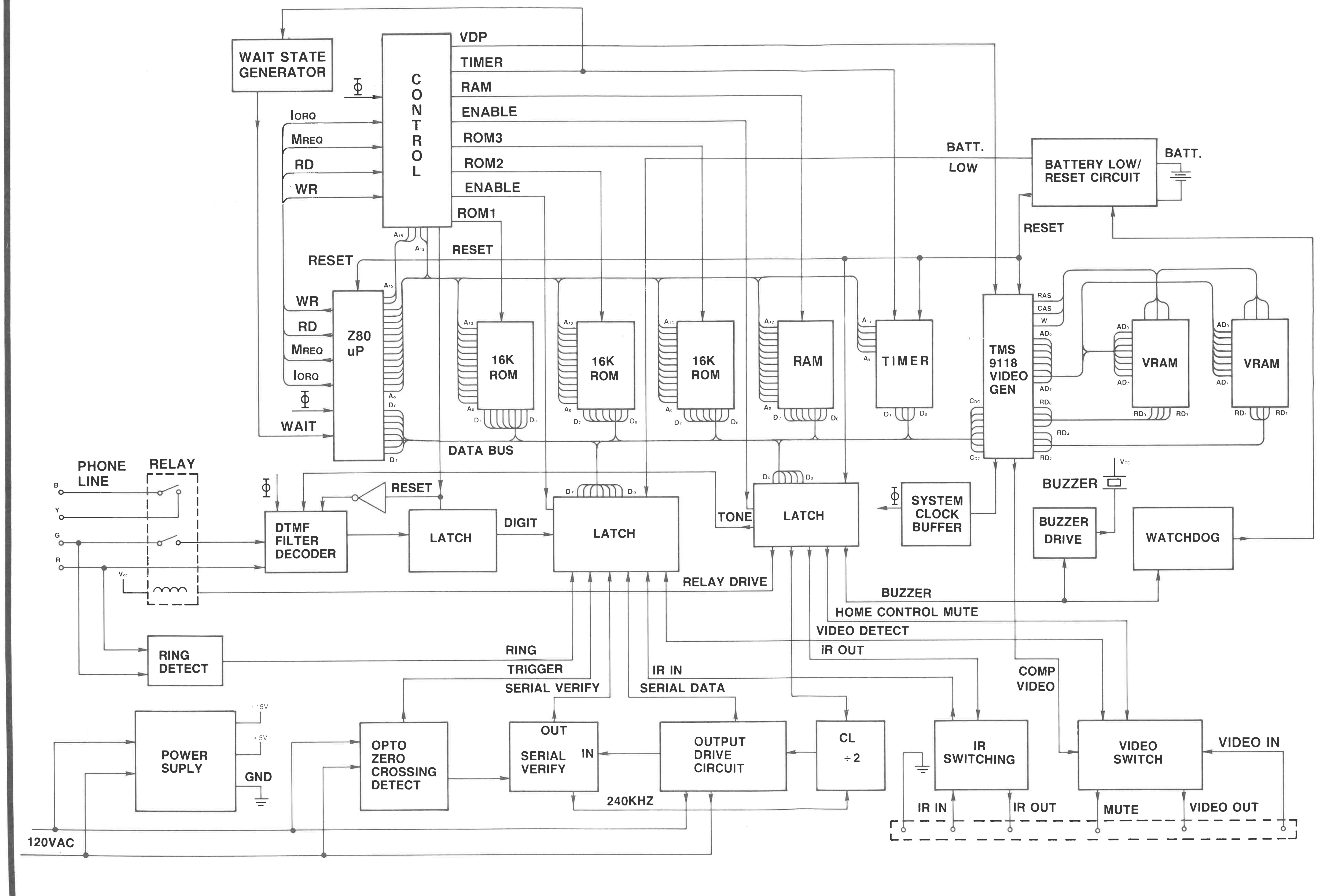
NOTE: See Model Page or CRT Label for correct CRT Replacement Part Number.





NOTE: See Model Page or CRT Label for correct CRT Replacement Part Number.
PM-D CHASSIS
HORIZ. OUTPUT XSISTOR AND DAMPER DIODE ARE INCLUDED IN THE SAME UNIT. REPLACE ONLY WITH ORIGINAL EQUIPMENT GE CATALOG REPLACEMENT PART NUMBER EP15X218.
HORIZ. HEATSINK
73E262657-REV Ø
SCHEMATIC PM 19"/25"/26"
SERVICE #D
UNLESS OTHERWISE NOTED:
K - 1,000
M - 1,000,000
CAPACITORS MORE THAN 1 - 1UUF - 1PF
CAPACITORS LESS THAN 1 - UF
INDUCTORS MORE THAN 1 - UH
RESISTORS ARE 1/4 WATT
VOLTAGE MEASUREMENTS MADE WITH A VTVM WITH RESPECT TO CHASSIS EXCEPT ON PWR SUPPLY BD.
INDICATES VOLTAGES ON PWR SUPPLY BD MEASURED WITH RESPECT TO TAB OF IC901.
RECEIVER SET FOR NORMAL OPERATION WITH STRONG SIGNAL.
MEASUREMENTS MAY VARY +/-10% AT 120V AC LINE VOLTAGE.
SIGNAL WAVEFORMS TAKEN WITH KEYED RAINBOW GENERATOR SIGNAL.
◆◆ INDICATES WAVEFORMS TAKEN AT 1/2 HORIZONTAL SWEEP RATE.
◆ INDICATES WAVEFORMS TAKEN AT 1/2 VERTICAL SWEEP RATE.
RL - RECEPTACLE
PG - PLUG
N.S. - NO SIGNAL
+36V +15V +12V +56V +120V +220V STANDBY +15V -15V
SOURCE
LOAD
LOW SIDE AC LINE
CHASSIS GROUND
CAUTION
1. ALWAYS USE AN ISOLATION TRANSFORMER WHEN SERVICING.
2. POWER SUPPLY IS ALWAYS ON IF AC LINE CORD IS PLUGGED IN.
IC501 SWEEP OSC
SWEEP BOARD
R.G.B. BOARD
POWER SUPPLY BD.
SWITCHING PWR. SUP. XFMR T901
IC901 SW PWR SUP REG
NEVER CONNECT PWR SUPPLY GND TO SWEEP GND
CAUTION
THE PM CHASSIS IS A "HOT" AND "COLD" CHASSIS THAT USES A TWO-GROUND SYSTEM. THE POWER SUPPLY MODULE IS ELEVATED 70VAC ABOVE EARTH GROUND AND IS ALWAYS "HOT" WHEN THE AC CORD IS PLUGGED IN. THE REST OF THE CHASSIS IS "COLD" AND IS ISOLATED FROM THE POWER SUPPLY MODULE BY SWITCHING TRANSFORMER (T901). NEVER CONNECT THE POWER SUPPLY MODULE GROUND TO ANY OTHER GROUND IN THE RECEIVER AND ALWAYS USE AN ISOLATION TRANSFORMER WHEN SERVICING.
73E262657 SH 2 REV Ø
73E262657 SH 3 REV Ø

HOMEMINDER FUNCTIONAL BLOCK DIAGRAM



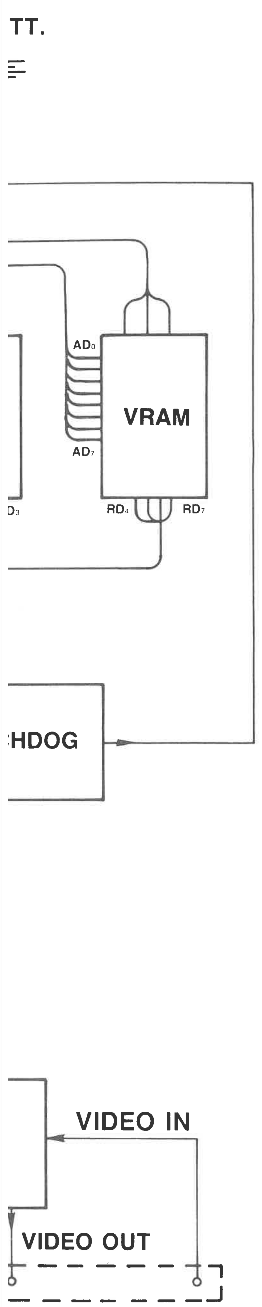
MECH. AND ELECT. PARTS AND ACCESSORIES

REF. NO.	PART NO.	DESCRIPTION
A	EW97X177	CABINET
BR1	EW57X8	RECTIFIER-Bridge
BT1	EW58X7	BATTERY-3.6 Volt
BZ1	EW41X385	BUZZER
C	EW93X513	POWER SUPPLY CIRCUIT BOARD
J1	EW34X36	SOCKET-Power Cord, Polarized
J4-7	EW34X37	SOCKET-Telephone
L	EW93X515	ANOLOG CIRCUIT BOARD ASSEMBLY
D	EW41X386	POWER CORD BUSHING ASSEMBLY
E	EW62X83	REGULATOR, +5V, ASSEMBL
F	EW84X663	LM7805, 1amp, 5V, Regulator
H	EW62X82	CONTROL BOX ASSEMBLY
I	EW93X514	LOGIC CIRCUIT BOARD ASSEMBLY
SK3	EW34X38	SOCKET-IC
SK4	EW34X38	SOCKET-IC
SK5	EW34X38	SOCKET-IC

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C1	EW31X179	10000uf, 20%, 16V, Elect.
C2	EW31X178	680uf, 20%, 40V, Elect.
C3	ES31X31	47uf, +50-10%, 16V, Elect.
C4	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C5	EW18X244	.047uf, +80-20%,40V, Cer. Disc
C6	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C7	EP31X169	100uf, 20%, 40V, Elect.
C8	EP25X16	.22uf, 20%, 250V, Polyester
C9	ES26X2	.22uf, 20%, 400V, Polyester
C10	EP31X169	100uf, 20%, 25v, Elect.
C11	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C12	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C13	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C14	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C15	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C16	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C17	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C18	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C19	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C20	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C21	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C22	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C23	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C24	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C25	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C26	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C27	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C28	EP18X186	22pf, 5%, NPO, 25V, Cer. Disc
C29	EP18X188	33pf, 5%, NPO, 25V, Cer. Disc
C30	ES31X31	47uf, +50-10%, 16V, Elect.
C31	EP18X188	33pf, 10%, 25V, Cer. Disc
C32	EP18X188	33pf, 10%, 25V, Cer. Disc
C33	EW30X37	TRIMMER-Variable, 5.5pf-65pf
C34	EW30X36	TRIMMER-Variable, 2pf—22pf
C35	EP31X169	100uf, 20%, 25v, Elect.
C36	EP31X150	10uf, 20%, 50v, Elect.
C37	EP31X150	10uf, 20%, 50v, Elect.
C38	EP31X179	4.7uf, 20%, 50v, Elect.
C39	EW31X76	.33uf, 20%, 50v, Elect.
C40	EW18X9	.1uf, +80-20%, 25V, Cer. Disc

HOMEMINDER (EP90X55) COMPLETE REPLACEMENT PARTS LIST



MECH. AND ELECT. PARTS AND ACCESSORIES

REF. NO.	PART NO.	DESCRIPTION
A	EW97X177	CABINET
BR1	EW57X8	RECTIFIER-Bridge
BT1	EW58X7	BATTERY-3.6 Volt
BZ1	EW41X385	BUZZER
C	EW93X513	POWER SUPPLY CIRCUIT BOARD
J1	EW34X36	SOCKET-Power Cord, Polarized
J4-7	EW34X37	SOCKET-Telephone
L	EW93X515	ANOLOG CIRCUIT BOARD ASSEMBLY
D	EW41X386	POWER CORD BUSHING ASSEMBLY
E	EW62X83	REGULATOR, +5V, ASSEMBLY
F	EW84X663	LM7805, 1amp, 5V, Regulator
H	EW62X82	CONTROL BOX ASSEMBLY
I	EW93X514	LOGIC CIRCUIT BOARD ASSEMBLY
SK3	EW34X38	SOCKET-IC
SK4	EW34X38	SOCKET-IC
SK5	EW34X38	SOCKET-IC

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C1	EW31X179	10000uf, 20%, 16V, Elect.
C2	EW31X178	680uf, 20%, 40V, Elect.
C3	ES31X31	47uf, +50-10%, 16V, Elect.
C4	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C5	EW18X244	.047uf, +80-20%,40V, Cer. Disc
C6	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C7	EP31X169	100uf, 20%, 40V, Elect.
C8	EP25X16	.22uf, 20%, 250V, Polyester
C9	ES26X2	.22uf, 20%, 400V, Polyester
C10	EP31X169	100uf, 20%, 25v, Elect.
C11	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C12	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C13	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C14	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C15	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C16	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C17	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C18	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C19	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C20	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C21	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C22	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C23	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C24	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C25	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C26	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C27	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C28	EP18X186	22pf, 5%, NPO, 25V, Cer. Disc
C29	EP18X188	33pf, 5%, NPO, 25V, Cer. Disc
C30	ES31X31	47uf, +50-10%, 16V, Elect.
C31	EP18X188	33pf, 10%, 25V, Cer. Disc
C32	EP18X188	33pf, 10%, 25V, Cer. Disc
C33	EW30X37	TRIMMER-Variable, 5.5pf-65pf
C34	EW30X36	TRIMMER-Variable, 2pf—22pf
C35	EP31X169	100uf, 20%, 25v, Elect.
C36	EP31X150	10uf, 20%, 50v, Elect.
C37	EP31X150	10uf, 20%, 50v, Elect.
C38	EP31X179	4.7uf, 20%, 50v, Elect.
C39	EW31X76	.33uf, 20%, 50v, Elect.
C40	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C41	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C42	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C43	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C44	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C45	EW18X9	.1uf, 20%, 25V, Cer. Disc
C46	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C47	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C48	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C49	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C50	EW18X9	.1uf, 20%, 25V, Cer. Disc
C51	EP18X197	1000pf, +80-20%,25v, Cer. Disc
C52	EW25X82	1500pf, 5%, 200v, NPO
C53	EW18X51	15pf, 10%, 200v, NPO
C54	EP25X116	1000pf, 100v, NPO
C55	EP18X189	47pf, 20%, 50V, Cer. Disc
C56	EP18X113	150pf, 5%, 50v, Cer. Disc
C57	EW18X238	.01uf, +80-20%, 25v, Cer. Disc
C58	EW18X2	270pf, 5%, NPO, 25V, Cer. Disc
C59	EW18X2	270pf, 5%, NPO, 25V, Cer. Disc
C60	EW18X2	270pf, 5%, NPO, 25V, Cer. Disc
C61	EW18X238	.01uf, +80-20%, 25v, Cer. Disc
C62	EW18X238	.01uf, +80-20%, 25v, Cer. Disc
C63	EW18X244	.047uf, +80-20%,25V, Cer. Disc
C64	EP18X140	680pf, +80-20%, 25V, Cer. Disc
C65	EP18X166	220pf, +80-20%, 25V, Cer. Disc
C66	EP18X140	680pf, 20%, 25V, Cer. Disc
C67	EP18X140	680pf, 20%, 25V, Cer. Disc
C68	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C69	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C70	EP25X116	1000pf, 100v, NPO
C73	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C74	EW31X81	.22uf, 20%, 50v, Elect.
C75	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C76	EW18X9	.1uf, +80-20%, 25V, Cer. Disc
C77	EW18X238	.01uf, +80-20%, 25v, Cer. Disc
C78	EP31X150	10uf, 20%, 50v, Elect.
C79	EW25X46	3300pf, +200-0%, 50V, FT
C80	EW25X46	3300pf, +200-0%, 50V, FT
C81	EW25X46	3300pf, +200-0%, 50V, FT
C82	EW25X46	3300pf, +200-0%, 50V, FT
C83	EW25X46	3300pf, +200-0%, 50V, FT
C84	EW25X46	3300pf, +200-0%, 50V, FT
C85	EW25X46	3300pf, +200-0%, 50V, FT
C86	EW25X46	3300pf, +200-0%, 50V, FT
C87	EW25X46	3300pf, +200-0%, 50V, FT
C88	EW25X46	3300pf, +200-0%, 50V, FT
C89	EP18X142	470pf, +100-0%, 50V, FT
C90	EP18X142	470pf, +100-0%, 50V, FT
C91	EW25X46	3300pf, +200-0%, 50V, FT
C92	EP18X166	220pf, +100-0%, 50V, FT
C93	EP18X166	220pf, +100-0%, 50V, FT
C94	EP31X166	1uf, 20%, 50v, Elect.
C95	EW18X9	.1uf, +80-20%, 25V, Cer. Disc

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R1	EP14X105	100K ohm, 10%, 1/2W, Carbon
R2	EP14X105	100K ohm, 10%, 1/2W, Carbon
R3	EP14X328	1.2K ohm, 10%, 1/2W, Carbon
R4	EW14X249	4.7K ohm, 5%, 1/4W, Carbon
R5	EW14X249	4.7K ohm, 5%, 1/4W, Carbon
R6	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
R7	EP14X403	220K ohm, 5%, 1/4W, Carbon
R8	EP14X398	15K ohm, 5%, 1/4W, Carbon
R9	EP14X133	470K ohm, 5%, 1/4W, Carbon
R10	EW14X249	4.7K ohm, 5%, 1/4W, Carbon
R11	EW14X173	4.7 ohm, 5%, 1/4W, Carbon
R12	EW14X364	150 ohm, 5%, 2.5W, Wirewound
R13	EP14X420	270 ohm, 5%, 1/4W, Carbon
R14	EP14X103	10K ohm 5%, 1/4W, Carbon
R15	EP14X103	10K ohm 5%, 1/4W, Carbon
R16	EP14X12	1 Meg ohm, 5%, 1/4W, Carbon
R17	ES14X71	1K ohm, 5%, 1/4W, Carbon
R18	EP14X103	10K ohm 5%, 1/4W, Carbon
R19	EP14X361	1.8K ohm, 5%, 1/4W, Carbon
R20	EP14X243	2.2K ohm, 5%, 1/4W, Carbon
R21	EP14X243	2.2K ohm, 5%, 1/4W, Carbon
R22	EP14X400	2.7K ohm, 5%, 1/4W, Carbon
R23	ES14X69	56 ohm, 5%, 1/4W, Carbon
R24	ES14X69	56 ohm, 5%, 1/4W, Carbon
R25	EP14X103	10K ohm 5%, 1/4W, Carbon
R26	EP14X103	10K ohm 5%, 1/4W, Carbon
R27	EP14X103	10K ohm 5%, 1/4W, Carbon
R28	EP14X103	10K ohm 5%, 1/4W, Carbon
R29	EW14X249	4.7K ohm, 5%, 1/4W, Carbon
R30	EW14X249	4.7K ohm, 5%, 1/4W, Carbon
R31	EP14X400	2.7K ohm, 5%, 1/4W, Carbon
R32	EP14X105	100K ohm, 5%, 1/4W, Carbon
R33	EP14X456	6.8K ohm, 5%, 1/4W, Carbon
R34	EP14X400	2.7K ohm, 5%, 1/4W, Carbon
R35	EP14X361	1.8K ohm, 5%, 1/4W, Carbon
R36	EP14X12	1 Meg ohm, 5%, 1/4W, Carbon
R37	EW14X249	4.7K ohm, 5%, 1/4W, Carbon
R38	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
R39	EP14X243	2.2K ohm, 5%, 1/4W, Carbon
R40	ES14X57	390 ohm, 5%, 1/4W, Carbon
R41	EP14X378	120 ohm, 10%, 1/4W, Carbon
R42	EP14X444	1.2K ohm, 10%, 1/4W, Carbon
R43	EP14X453	150K ohm, 5%, 1/4W, Carbon
R44	EP14X103	10K ohm 5%, 1/4W, Carbon
R45	EW14X176	470 ohm, 5%, 1/4W, Carbon
R46	ES14X62	1.5K ohm, 10%, 1/4W, Carbon
R47	ES14X70	100 ohm, 5%, 1/4W, Carbon
R48	EP14X136	33K ohm 5%, 1/4W, Carbon
R49	ES14X60	680 ohm, 5%, 1/4W, Carbon
R50	EP14X453	150K ohm, 5%, 1/4W, Carbon
R51	EW14X81	56K ohm, 5%, 1/4W, Carbon
R52	EP14X105	100K ohm, 5%, 1/4W, Carbon
R53	EP14X104	22K ohm, 5%, 1/4W, Carbon
R54	EP14X104	22K ohm, 5%, 1/4W, Carbon
R55	EP14X103	10K ohm 5%, 1/4W, Carbon
R56	EW14X249	4.7K ohm, 5%, 1/4W, Carbon
R57	EP14X103	10K ohm 5%, 1/4W, Carbon
R58	EP14X243	2.2K ohm, 5%, 1/4W, Carbon
R60	EW14X176	470 ohm, 5%, 1/4W, Carbon
R61	ES14X71	1K ohm, 5%, 1/4W, Carbon
R62	EW14X282	3.3 ohm, 5%, 1/4W, Carbon
R63	EP14X380	27K ohm, 5%, 1/4W, Carbon
R64	EP14X119	68K ohm, 5%, 1/4W, Carbon
R65	EP14X104	22K ohm, 5%, 1/4W, Carbon
R66	EW14X249	4.7K ohm, 5%, 1/4W, Carbon
R67	EW14X249	4.7K ohm, 5%, 1/4W, Carbon
R68	EP14X103	10K ohm 5%, 1/4W, Carbon
R70	EP14X406	390K ohm, 5%, 1/4W, Carbon
R71	EP14X398	15K ohm, 5%, 1/4W, Carbon
R73	EP14X105	100K ohm, 5%, 1/4W, Carbon
R74	EP14X361	1.8K ohm, 5%, 1/4W, Carbon
R75	EP14X437	3.9K ohm, 5%, 1/4W, Carbon
R76	EP14X403	220K ohm, 5%, 1/4W, Carbon
R77	EP14X437	3.9K ohm, 5%, 1/4W, Carbon
R78	EP14X119	68K ohm, 5%, 1/4W, Carbon
R79	EP14X125	47K ohm, 5%, 1/4W, Carbon
R80	EP14X104	22K ohm, 5%, 1/4W, Carbon
R81	EP14X103	10K ohm 5%, 1/4W, Carbon
R82	EP14X447	39K ohm, 5%, 1/4W, Carbon
R83	EP14X447	39K ohm, 5%, 1/4W, Carbon
R84	ES14X69	56 ohm, 5%, 1/4W, Carbon
R85	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
R86	EP14X447	39K ohm, 5%, 1/4W, Carbon
R87	EP14X125	47K ohm, 5%, 1/4W, Carbon
R88	ES14X71	1K ohm, 5%, 1/4W, Carbon
R89	ES14X71	1K ohm, 5%, 1/4W, Carbon
R90	EW14X362	VARIABLE-200K
R91	ES14X71	1K ohm, 5%, 1/4W, Carbon
R92	EP14X104	22K ohm, 5%, 1/4W, Carbon
R93	EP14X104	22K ohm, 5%, 1/4W, Carbon
R94	EP14X104	22K ohm, 5%, 1/4W, Carbon
R95	EP14X104	22K ohm, 5%, 1/4W, Carbon
R96	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
R97	EP14X437	3.9K ohm, 5%, 1/4W, Carbon
R98	EW14X249	4.7K ohm, 5%, 1/4W, Carbon
R99	EP14X437	3.9K ohm, 5%, 1/4W, Carbon
R100	ES14X70	100 ohm, 5%, 1/4W, Carbon
R101	ES14X62	1.5K ohm, 10%, 1/4W, Carbon
R102	EP14X456	6.8K ohm, 5%, 1/4W, Carbon
R103	EP14X456	6.8K ohm, 5%, 1/4W, Carbon
R104	ES14X71	1K ohm, 5%, 1/4W, Carbon
R105	EW14X209	33 ohm, 10%, 1W, Carbon
R106	ES14X58	470 ohm, 10%, 1/2W, Carbon
R107	EP14X103	10K ohm 5%, 1/4W, Carbon
R109	EP14X446	560K ohm, 5%, 1/4W, Carbon
R110	EW14X303	3.3 Meg ohm, 10%, 1/4W, Carbon
R111	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
R112	EP14X243	2.2K ohm, 5%, 1/4W, Carbon
R113	EP14X105	100K ohm, 5%, 1/4W, Carbon
R114	EP14X105	100K ohm, 5%, 1/4W, Carbon
R115	EP14X136	33K ohm 5%, 1/4W, Carbon
R116	EP14X103	10K ohm 5%, 1/4W, Carbon
R117	EP14X136	33K ohm 5%, 1/4W, Carbon
R118	EP14X403	220K ohm, 5%, 1/4W, Carbon
R119	EW14X249	4.7K ohm, 5%, 1/4W, Carbon
R120	EP14X136	33K ohm 5%, 1/4W, Carbon
R121	ES14X71	1K ohm, 5%, 1/4W, Carbon
R122	EP14X104	22K ohm, 5%, 1/4W, Carbon
R123	EP14X119	68K ohm, 5%, 1/4W, Carbon
R124	EP14X136	33K ohm 5%, 1/4W, Carbon
R125	EP14X104	22K ohm, 5%, 1/4W, Carbon
R126	EP14X445	220 ohm, 5%, 1/4W, Carbon
R127	EW14X338	5.6 ohm, 5%, 1/4W, Carbon
VDR1	EW14X363	VDR-V130LA2

DIODES

REF. NO.	PART NO.	DESCRIPTION
D1	EW57X1	1N4002GP, Rectifier
D2	EW57X1	1N4002GP, Rectifier
D3	EW57X1	1N4002GP, Rectifier
D4	EW57X1	1N4002GP, Rectifier
D5	EW57X7	1N5401, Rectifier
D6	EW57X7	1N5401, Rectifier
D7	EW57X7	1N5401, Rectifier
D8	EW57X7	1N5401, Rectifier
D9	EW57X6	1N4007GP, Rectifier
D10	EW57X1	1N4001GP, Rectifier
D11	EW16X420	1N4606, Silicon
D12	EW16X420	1N4606, Silicon
D13	EW16X423	ZENER
D14	EW16X420	1N4606, Silicon
D15	EW16X420	1N4606, Silicon
D16	EW16X420	1N4606, Silicon
D17	EW16X420	1N4606, Silicon
D18	EW16X420	1N4606, Silicon
D19	EW16X420	1N4606, Silicon
D20	EW16X420	1N4606, Silicon
D21	EW16X420	1N4606, Silicon
D22	EW16X420	1N4606, Silicon
D23	EW16X420	1N4606, Silicon
D24	EW16X420	
D25	EW16X420	
D26	EW16X420	
D27	EW16X420	
D28	EW16X420	
D29	EW16X420	
D30	EW16X420	
D31	EW16X424	
D32	EW16X425	
D33	EW16X421	
D34	EW16X422	
D35	EW16X426	
D36	EW16X420	
D37	EW16X420	
D38	EW16X420	
D39	EW16X420	

INTEGRATE

REF. NO.	PART NO.
★C1	EW84X662
★IC2	EW84X661
IC3	EW84X652
IC4	EW84X646
IC5	EW84X659
IC6	EW84X659
IC7	EW84X645
IC8	EW84X649
IC10	EW84X651
IC11	EW84X651
IC12	EW84X651
IC13	EW84X656
IC14	EW84X656
IC15	EW84X653
IC16	EW84X657
IC17	EW84X655
IC18	EW84X654
IC19	EW84X647
IC20	EW84X655
IC21	EW84X648
IC22	EW84X653
IC23	EW84X660
IC24	EW84X658
IC25	EW84X644
IC26	EW84X643
IC27	EW84X650
RG1	EW84X641
RG2	EW84X642

COILS AND TR

REF. NO.	PART NO.
★L1	EW88X42
★L2	EW37X34
L3	EW36X482
★L4	EW88X43
L5	EW36X480
L6	EW36X479
L7	EW36X480
L8	EW36X481

TRANSI

REF. NO.	PART NO.
TR1	EW15X444
TR2	EW15X441
TR3	EW15X441

EW18X9	.1uf, +80-20%, 25V, Cer. Disc
EW18X9	.1uf, +80-20%, 25V, Cer. Disc
EW18X9	.1uf, +80-20%, 25V, Cer. Disc
EW18X9	.1uf, +80-20%, 25V, Cer. Disc
EW18X9	.1uf, 20%, 25V, Cer. Disc
EW18X9	.1uf, +80-20%, 25V, Cer. Disc
EW18X9	.1uf, +80-20%, 25V, Cer. Disc
EW18X9	.1uf, +80-20%, 25V, Cer. Disc
EW18X9	.1uf, +80-20%, 25V, Cer. Disc
EW18X9	.1uf, 20%, 25V, Cer. Disc
EP18X197	1000pf, +80-20%,25v, Cer. Disc
EW25X82	1500pf, 5%, 200v, NPO
EW18X51	15pf, 10%, 200v, NPO
EP25X116	1000pf, 100v, NPO
EP18X189	47pf, 20%, 50V, Cer. Disc
EP18X113	150pf, 5%, 50v, Cer. Disc
EW18X238	.01uf, +80-20%, 25v, Cer. Disc
EW18X2	270pf, 5%, NPO, 25V, Cer. Disc
EW18X2	270pf, 5%, NPO, 25V, Cer. Disc
EW18X2	270pf, 5%, NPO, 25V, Cer. Disc
EW18X238	.01uf, +80-20%, 25v, Cer. Disc
EW18X238	.01uf, +80-20%, 25v, Cer. Disc
EW18X244	.047uf, +80-20%,25V, Cer. Disc
EP18X140	680pf, +80-20%, 25V, Cer. Disc
EP18X166	220pf, +80-20%, 25V, Cer. Disc
EP18X140	680pf, 20%, 25V, Cer. Disc
EP18X140	680pf, 20%, 25V, Cer. Disc
EW18X9	.1uf, +80-20%, 25V, Cer. Disc
EW18X9	.1uf, +80-20%, 25V, Cer. Disc
EP25X116	1000pf, 100v, NPO
EW18X9	.1uf, +80-20%, 25V, Cer. Disc
EW31X81	.22uf, 20%, 50v, Elect.
EW18X9	.1uf, +80-20%, 25V, Cer. Disc
EW18X9	.1uf, +80-20%, 25V, Cer. Disc
EW18X238	.01uf, +80-20%, 25v, Cer. Disc
EP31X150	10uf, 20%, 50v, Elect.
EW25X46	3300pf, +200-0%, 50V, FT
EW25X46	3300pf, +200-0%, 50V, FT
EW25X46	3300pf, +200-0%, 50V, FT
EW25X46	3300pf, +200-0%, 50V, FT
EW25X46	3300pf, +200-0%, 50V, FT
EW25X46	3300pf, +200-0%, 50V, FT
EW25X46	3300pf, +200-0%, 50V, FT
EW25X46	3300pf, +200-0%, 50V, FT
EW25X46	3300pf, +200-0%, 50V, FT
EW25X46	3300pf, +200-0%, 50V, FT
EP18X142	470pf, +100-0%, 50V, FT
EP18X142	470pf, +100-0%, 50V, FT
EW25X46	3300pf, +200-0%, 50V, FT
EP18X166	220pf, +100-0%, 50V, FT
EP18X166	220pf, +100-0%, 50V, FT
EP31X166	1uf, 20%, 50v, Elect.
EW18X9	.1uf, +80-20%, 25V, Cer. Disc

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
	EP14X105	100K ohm, 10%, 1/2W, Carbon
	EP14X105	100K ohm, 10%, 1/2W, Carbon
	EP14X328	1.2K ohm, 10%, 1/2W, Carbon
	EW14X249	4.7K ohm, 5%, 1/4W, Carbon
	EW14X249	4.7K ohm, 5%, 1/4W, Carbon
	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
	EP14X403	220K ohm, 5%, 1/4W, Carbon
	EP14X398	15K ohm, 5%, 1/4W, Carbon
	EP14X133	470K ohm, 5%, 1/4W, Carbon
	EW14X249	4.7K ohm, 5%, 1/4W, Carbon
	EW14X173	4.7 ohm, 5%, 1/4W, Carbon
	EW14X364	150 ohm, 5%, 2.5W, Wirewound
R13	EP14X420	270 ohm, 5%, 1/4W, Carbon
R14	EP14X103	10K ohm 5%, 1/4W, Carbon
R15	EP14X103	10K ohm 5%, 1/4W, Carbon
R16	EP14X12	1 Meg ohm, 5%, 1/4W, Carbon
R17	ES14X71	1K ohm, 5%, 1/4W, Carbon
R18	EP14X103	10K ohm 5%, 1/4W, Carbon
R19	EP14X361	1.8K ohm, 5%, 1/4W, Carbon
R20	EP14X243	2.2K ohm, 5%, 1/4W, Carbon
R21	EP14X243	2.2K ohm, 5%, 1/4W, Carbon
R22	EP14X400	2.7K ohm, 5%, 1/4W, Carbon
R23	ES14X69	56 ohm, 5%, 1/4W, Carbon
R24	ES14X69	56 ohm, 5%, 1/4W, Carbon
R25	EP14X103	10K ohm 5%, 1/4W, Carbon
R26	EP14X103	10K ohm 5%, 1/4W, Carbon
R27	EP14X103	10K ohm 5%, 1/4W, Carbon
R28	EP14X103	10K ohm 5%, 1/4W, Carbon
R29	EW14X249	4.7K ohm, 5%, 1/4W, Carbon
R30	EW14X249	4.7K ohm, 5%, 1/4W, Carbon
R31	EP14X400	2.7K ohm, 5%, 1/4W, Carbon
R32	EP14X105	100K ohm, 5%, 1/4W, Carbon
R33	EP14X456	6.8K ohm, 5%, 1/4W, Carbon
R34	EP14X400	2.7K ohm, 5%, 1/4W, Carbon
R35	EP14X361	1.8K ohm, 5%, 1/4W, Carbon
R36	EP14X12	1 Meg ohm, 5%, 1/4W, Carbon
R37	EW14X249	4.7K ohm, 5%, 1/4W, Carbon
R38	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
R39	EP14X243	2.2K ohm, 5%, 1/4W, Carbon
R40	ES14X57	390 ohm, 5%, 1/4W, Carbon
R41	EP14X378	120 ohm, 10%, 1/4W, Carbon
R42	EP14X444	1.2K ohm, 10%, 1/4W, Carbon
R43	EP14X453	150K ohm, 5%, 1/4W, Carbon
R44	EP14X103	10K ohm 5%, 1/4W, Carbon
R45	EW14X176	470 ohm, 5%, 1/4W, Carbon
R46	ES14X62	1.5K ohm, 10%, 1/4W, Carbon
R47	ES14X70	100 ohm, 5%, 1/4W, Carbon
R48	EP14X136	33K ohm 5%, 1/4W, Carbon
R49	ES14X60	680 ohm, 5%, 1/4W, Carbon
R50	EP14X453	150K ohm, 5%, 1/4W, Carbon
R51	EW14X81	56K ohm, 5%, 1/4W, Carbon
R52	EP14X105	100K ohm, 5%, 1/4W, Carbon
R53	EP14X104	22K ohm, 5%, 1/4W, Carbon
R54	EP14X104	22K ohm, 5%, 1/4W, Carbon
R55	EP14X103	10K ohm 5%, 1/4W, Carbon
R56	EW14X249	4.7K ohm, 5%, 1/4W, Carbon
R57	EP14X103	10K ohm 5%, 1/4W, Carbon
R58	EP14X243	2.2K ohm, 5%, 1/4W, Carbon
R60	EW14X176	470 ohm, 5%, 1/4W, Carbon
R61	ES14X71	1K ohm, 5%, 1/4W, Carbon
R62	EW14X282	3.3 ohm, 5%, 1/4W, Carbon
R63	EP14X380	27K ohm, 5%, 1/4W, Carbon
R64	EP14X119	68K ohm, 5%, 1/4W, Carbon
R65	EP14X104	22K ohm, 5%, 1/4W, Carbon
R66	EW14X249	4.7K ohm, 5%, 1/4W, Carbon
R67	EW14X249	4.7K ohm, 5%, 1/4W, Carbon
R68	EP14X103	10K ohm 5%, 1/4W, Carbon
R70	EP14X406	390K ohm, 5%, 1/4W, Carbon
R71	EP14X398	15K ohm, 5%, 1/4W, Carbon
R73	EP14X105	100K ohm, 5%, 1/4W, Carbon
R74	EP14X361	1.8K ohm, 5%, 1/4W, Carbon
R75	EP14X437	3.9K ohm, 5%, 1/4W, Carbon
R76	EP14X403	220K ohm, 5%, 1/4W, Carbon
R77	EP14X437	3.9K ohm, 5%, 1/4W, Carbon
R78	EP14X119	68K ohm, 5%, 1/4W, Carbon
R79	EP14X125	47K ohm, 5%, 1/4W, Carbon
R80	EP14X104	22K ohm, 5%, 1/4W, Carbon
R81	EP14X103	10K ohm 5%, 1/4W, Carbon
R82	EP14X447	39K ohm, 5%, 1/4W, Carbon
R83	EP14X447	39K ohm, 5%, 1/4W, Carbon
R84	ES14X69	56 ohm, 5%, 1/4W, Carbon
R85	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
R86	EP14X447	39K ohm, 5%, 1/4W, Carbon
R87	EP14X125	47K ohm, 5%, 1/4W, Carbon
R88	ES14X71	1K ohm, 5%, 1/4W, Carbon
R89	ES14X71	1K ohm, 5%, 1/4W, Carbon
R90	EW14X362	VARIABLE-200K
R91	ES14X71	1K ohm, 5%, 1/4W, Carbon
R92	EP14X104	22K ohm, 5%, 1/4W, Carbon
R93	EP14X104	22K ohm, 5%, 1/4W, Carbon
R94	EP14X104	22K ohm, 5%, 1/4W, Carbon
R95	EP14X104	22K ohm, 5%, 1/4W, Carbon
R96	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
R97	EP14X437	3.9K ohm, 5%, 1/4W, Carbon
R98	EW14X249	4.7K ohm, 5%, 1/4W, Carbon
R99	EP14X437	3.9K ohm, 5%, 1/4W, Carbon
R100	ES14X70	100 ohm, 5%, 1/4W, Carbon
R101	ES14X62	1.5K ohm, 10%, 1/4W, Carbon
R102	EP14X456	6.8K ohm, 5%, 1/4W, Carbon
R103	EP14X456	6.8K ohm, 5%, 1/4W, Carbon
R104	ES14X71	1K ohm, 5%, 1/4W, Carbon
R105	EW14X209	33 ohm, 10%, 1W, Carbon
R106	ES14X58	470 ohm, 10%, 1/2W, Carbon
R107	EP14X103	10K ohm 5%, 1/4W, Carbon
R109	EP14X446	560K ohm, 5%, 1/4W, Carbon
R110	EW14X303	3.3 Meg ohm, 10%, 1/4W, Carbon
R111	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
R112	EP14X243	2.2K ohm, 5%, 1/4W, Carbon
R113	EP14X105	100K ohm, 5%, 1/4W, Carbon
R114	EP14X105	100K ohm, 5%, 1/4W, Carbon
R115	EP14X136	33K ohm 5%, 1/4W, Carbon
R116	EP14X103	10K ohm 5%, 1/4W, Carbon
R117	EP14X136	33K ohm 5%, 1/4W, Carbon
R118	EP14X403	220K ohm, 5%, 1/4W, Carbon
R119	EW14X249	4.7K ohm, 5%, 1/4W, Carbon
R120	EP14X136	33K ohm 5%, 1/4W, Carbon
R121	ES14X71	1K ohm, 5%, 1/4W, Carbon
R122	EP14X104	22K ohm, 5%, 1/4W, Carbon
R123	EP14X119	68K ohm, 5%, 1/4W, Carbon
R124	EP14X136	33K ohm 5%, 1/4W, Carbon
R125	EP14X104	22K ohm, 5%, 1/4W, Carbon
R126	EP14X445	220 ohm, 5%, 1/4W, Carbon
R127	EW14X338	5.6 ohm, 5%, 1/4W, Carbon
VDR1	EW14X363	VDR-V130LA2

DIODES

REF. NO.	PART NO.	DESCRIPTION
D1	EW57X1	1N4002GP, Rectifier
D2	EW57X1	1N4002GP, Rectifier
D3	EW57X1	1N4002GP, Rectifier
D4	EW57X1	1N4002GP, Rectifier
D5	EW57X7	1N5401, Rectifier
D6	EW57X7	1N5401, Rectifier
D7	EW57X7	1N5401, Rectifier
D8	EW57X7	1N5401, Rectifier
D9	EW57X6	1N4007GP, Rectifier
D10	EW57X1	1N4001GP, Rectifier
D11	EW16X420	1N4606, Silicon
D12	EW16X420	1N4606, Silicon
D13	EW16X423	ZENER
D14	EW16X420	1N4606, Silicon
D15	EW16X420	1N4606, Silicon
D16	EW16X420	1N4606, Silicon
D17	EW16X420	1N4606, Silicon
D18	EW16X420	1N4606, Silicon
D19	EW16X420	1N4606, Silicon
D20	EW16X420	1N4606, Silicon
D21	EW16X420	1N4606, Silicon
D22	EW16X420	1N4606, Silicon
D23	EW16X420	1N4606, Silicon
D24	EW16X420	1N4606, Silicon
D25	EW16X420	1N4606, Silicon
D26	EW16X420	1N4606, Silicon
D27	EW16X420	1N4606, Silicon
D28	EW16X420	1N4606, Silicon
D29	EW16X420	1N4606, Silicon
D30	EW16X420	1N4606, Silicon
D31	EW16X424	ZENER, 3.3V, 5%, 400mw
D32	EW16X425	ZENER, 5.6V, 5%, 1/2W
D33	EW16X421	ZENER, 18V, 5%, 1.3W
D34	EW16X422	ZENER, 22V, 5%, 1.3W
D35	EW16X426	ZENER, 68V, 5%, 1.3W
D36	EW16X420	1N4606, Silicon
D37	EW16X420	1N4606, Silicon
D38	EW16X420	1N4606, Silicon
D39	EW16X420	1N4606, Silicon

INTEGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
★IC1	EW84X662	GI-MMCT272, Optic Isolator
★IC2	EW84X661	HA11A520, Optic Isolator
IC3	EW84X652	Z8400A, Processor
IC4	EW84X646	TMS9118NL
IC5	EW84X659	TMS4416-20NL
IC6	EW84X659	TMS4416-20NL
IC7	EW84X645	MSM5832RS,Real Time Clock Chip
IC8	EW84X649	HM6116LP4
IC10	EW84X651	EPROM, 27128-251
IC11	EW84X651	EPROM, 27128-251
IC12	EW84X651	EPROM, 27128-251
IC13	EW84X656	74LS32, 16kx4 DRAM
IC14	EW84X656	74LS32, 16kx4 DRAM
IC15	EW84X653	TTL74LS74,Dual D Type Bistable
IC16	EW84X657	74LS139, Dual 10F4 Decoder
IC17	EW84X655	TTL74LS393, Dual Counter
IC18	EW84X654	SN74LS04, Hex Inverting Buffer
IC19	EW84X647	MT8865XE, DTMF Filter
IC20	EW84X655	TTL74LS393, Dual Counter
IC21	EW84X648	MT8860XE, DTMF Tone Decoder
IC22	EW84X653	TTL74LS74,Dual D Type Bistable
IC23	EW84X660	74LS244, Octal 3-State Driver
IC24	EW84X658	74LS174, D-Flip Flop
IC25	EW84X644	TDA5850, Video Switch
IC26	EW84X643	CA311E, Voltage Comparator
IC27	EW84X650	78568, Pico Repeater
RG1	EW84X641	LM7805, Regulator, (+5V)
RG2	EW84X642	LM7815, Regulator, (+15V)

COILS AND TRANSFORMERS

REF. NO.	PART NO.	DESCRIPTION
★L1	EW88X42	TRANSFORMER-Power
★L2	EW37X34	TRANSFORMER-Telephone
L3	EW36X482	CHOKE-120K hz, 5A
★L4	EW88X43	TRANSFORMER-Output Isolation
L5	EW36X480	COIL-Variable
L6	EW36X479	COIL-Variable
L7	EW36X480	COIL-Variable
L8	EW36X481	COIL-100uh, VHF

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
TR1	EW15X444	BC548C, Silicon, NPN
TR2	EW15X441	2N3904, Silicon, NPN
TR3	EW15X441	2N3904, Silicon, NPN
TR4	EW15X441	2N3904, Silicon, NPN
TR5	EW15X447	2N5771, Silicon, PNP
TR6	EW15X445	MPS2369, S/ILICON, NPN
TR7	EW15X441	2N3904, Silicon, NPN
TR8	EW15X441	2N3904, Silicon, NPN
TR9	EW15X441	2N3904, Silicon, NPN
TR10	EW15X443	2SD667A, Silicon, NPN, 100V
TR11	EW15X442	2N5550, NPN, Silicon, 140V
TR12	EW15X441	2N3904, Silicon, NPN
TR13	EW15X441	2N3904, Silicon, NPN
TR14	EW15X441	2N3904, Silicon, NPN
TR15	EW15X441	2N3904, Silicon, NPN
TR16	EW15X441	2N3904, Silicon, NPN
TR17	EW15X441	2N3904, Silicon, NPN
TR18	EW15X446	2N3906, Silicon, PNP
TR19	EW15X441	2N3904, Silicon, NPN
TR20	EW15X441	2N3904, Silicon, NPN
TR21	EW15X441	2N3904, Silicon, NPN
TR22	EW15X441	2N3904, Silicon, NPN
TR23	EW15X446	2N3906, Silicon, PNP
TR24	EW15X441	2N3904, Silicon, NPN
TR25	EW15X446	2N3906, Silicon, PNP
TR26	EW15X441	2N3904, Silicon, NPN
TR27	EW15X441	2N3904, Silicon, NPN
TR28	EW15X446	2N3906, Silicon, PNP
TR29	EW15X441	2N3904, Silicon, NPN
TR30	EW15X446	2N3906, Silicon, PNP
TR31	EW15X441	2N3904, Silicon, NPN
TR32	EW15X441	2N3904, Silicon, NPN
TR33	EW15X446	2N3906, Silicon, PNP
TR34	EW15X441	2N3904, Silicon, NPN
TR35	EW15X441	2N3904, Silicon, NPN
TR36	EW15X441	2N3904, Silicon, NPN
TR37	EW15X446	2N3906, Silicon, PNP
TR38	EW15X441	2N3904, Silicon, NPN
TR39	EW15X446	2N3906, Silicon, PNP
TR40	EW15X441	2N3904, Silicon, NPN
TR41	EW15X441	2N3904, Silicon, NPN
TR42	EW15X446	2N3906, Silicon, PNP
TR43	EW15X441	2N3904, Silicon, NPN

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
FB1	EW12X5	FERRITE BEAD
★FS1	EW10X58	FUSE-0.5 AMP, 250V, SLOW BLOW
★FS2	EW10X59	FUSE-0.5 AMP, 250V, FAST BLOW
RL1	EW41X387	RELAY
XT1	EW41X383	CRYSTAL-32.768K hz
XT2	EW41X384	CRYSTAL-10.7386meg hz
★VDR1	EW14X363	VDR-V130LA2

IMPORTANT SAFETY NOTICE

Product safety should be considered when component replacement is made in any area of a receiver. The (★) beside a part in the parts list and the shaded areas of the schematic diagram designates components in which safety can be of special significance. It is particularly recommended that exact cataloged parts be used for replacement of components which are designated by a (★) in the parts list and the shaded areas on the schematic diagram.

Use of substitute replacement parts which do not have the same safety characteristics as recommended in factory service information may create Shock, Fire or other hazards, or excessive X-Radiation.

GENERAL INFORMATION: **The following information is excerpts from the Customer Care Manual and is intended only as general information for familiarization of the HomeMinder System to the technician who has little experience with HomeMinder.**

WHAT THE HOMEMINDER™ SYSTEM CAN DO FOR YOU

Instant On/Off Control
You can turn lights or appliances on or off from your TV if they are connected to a HomeMinder™ System module.

Timing Lights and Appliances
With your HomeMinder™ System, you can set "on" or "off" times whenever you like for any light or appliance connected to the HomeMinder™ System.

Telephone Control
You can turn up to 15 lights or appliances on or off from any Touch-Tone phone just by calling your HomeMinder™ System.

Telephone Messages
If no one is home, you can leave simple messages on your HomeMinder™ System from any Touch-Tone phone. HomeMinder™ System provides some of the benefits of an answering machine.

Memo Pad
HomeMinder™ System's memo pad will help you remember important dates and appointments and will remind you of each one.

Dimming Lights
With HomeMinder™ System, you can dim incandescent lights connected to LampMinder™ Module or Light Switch module.

Automatic Security System
With the push of a button, you can make your home look and sound "lived in" when you are not at home.

Password Protection
If you choose, you may select a password to prevent others from using your system. You can choose to use a password all the time or only when you phone home.

Battery Back-up
Your HomeMinder™ System is equipped with a battery. In the event of a power failure, HomeMinder™ System will remember all pre-set times for your lamps and appliances for 100 hours. (If your power is interrupted, lamps will automatically turn off.)

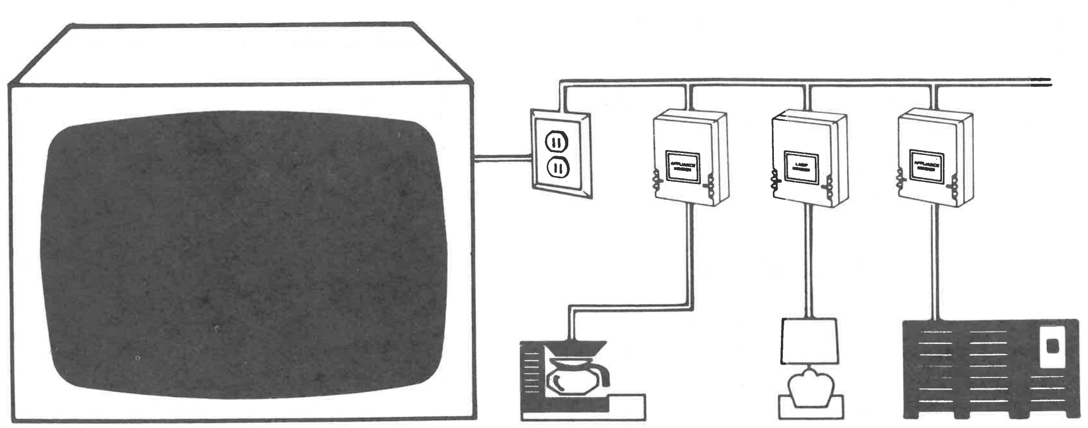
HOW THE HOMEMINDER™ SYSTEM WORKS

HomeMinder™ System works through your house wiring, so there is no need for any special wiring or installation.

The HomeMinder™ System controller responds to your instructions by sending out coded commands to the LampMinder™ Module, ApplianceMinder™ Module and Light Switch modules throughout your home. HomeMinder™ System will suggest a unique code to be used for each of these modules. Only that module can respond to the instructions meant for it.

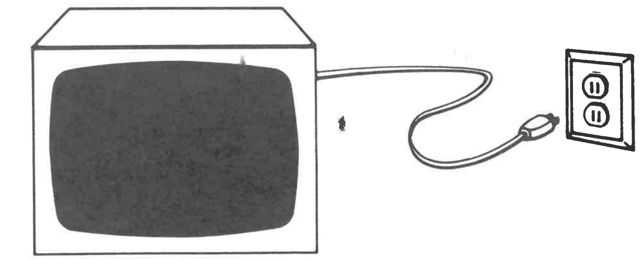
LampMinder™ Modules can be used with any incandescent light of up to 300 watts, while the Light Switches (optional) can go up to 500 watts. They cannot be used with flourescent lights; light switches should not be used when multiple switches operate the same light.

ApplianceMinder™ Modules allow you to connect TV's that use less than 400 watts or any light using less than 500 watts. You may also use it with motors with less than $^1/_3$ horsepower and loads up to 15 amps. Be sure to **check the power rating** listed on the back of your appliances.



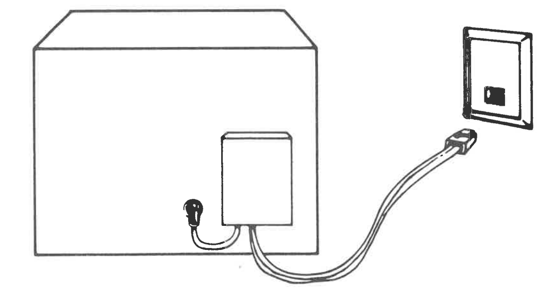
INSTALLATION

For Antenna and Cable Installation see the separate Television Use and Care book.



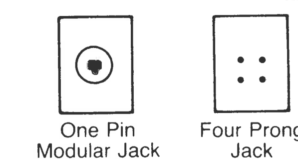
1. MAKE SURE THE TV IS PLUGGED INTO A STANDARD 120 VOLT AC OUTLET.
(Normal household current).

2. PLACE THE BATTERIES IN THE REMOTE CONTROL UNIT.
Slide open the battery compartment on the back of the remote control and insert the batteries, using the diagram at the bottom of the compartment to position the batteries correctly. Then replace the compartment lid.



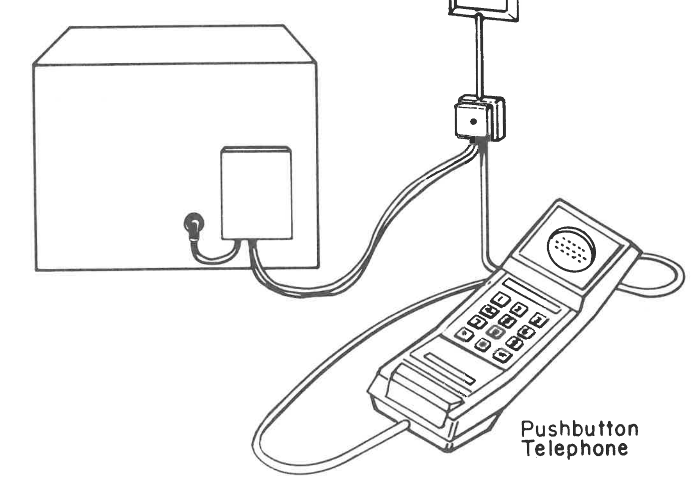
3. ATTACH THE TELEPHONE CABLE.
The modular telephone cable will plug directly into the bottom of the HomeMinder™ System unit. Plug the other end into any modular phone jack. If you need a longer cord, or do not have modular jacks, the appropriate hardware is available at most telephone supply and hardware stores.

- Plug one end of your modular telephone cable (supplied accessory) into the phone outlet, on the back of the TV.
- Plug the other end into a modular phone jack.



One Pin Modular Jack
To allow both the HomeMinder™ System unit and your telephone to utilize the same modular jack, use a "Y" connector adapter available from your telephone company business office, or most electronic supply stores.

4. Modular Adapter Plug
To convert an unused 4-prong jack into a single modular jack, use the adapter available through your telephone company business office or most electronic supply stores.



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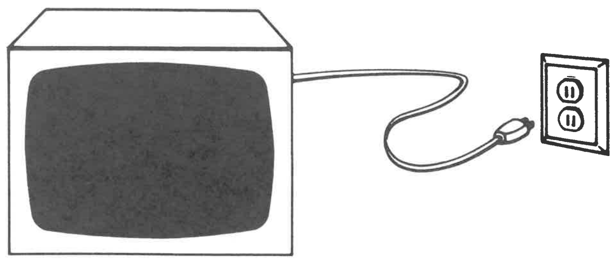
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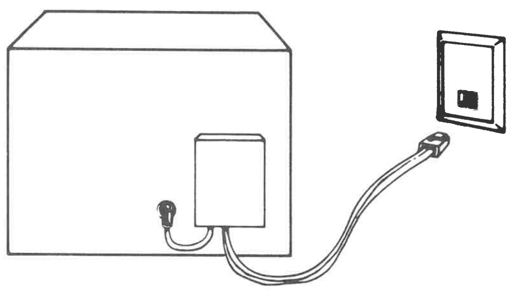
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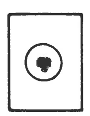
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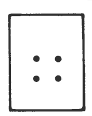
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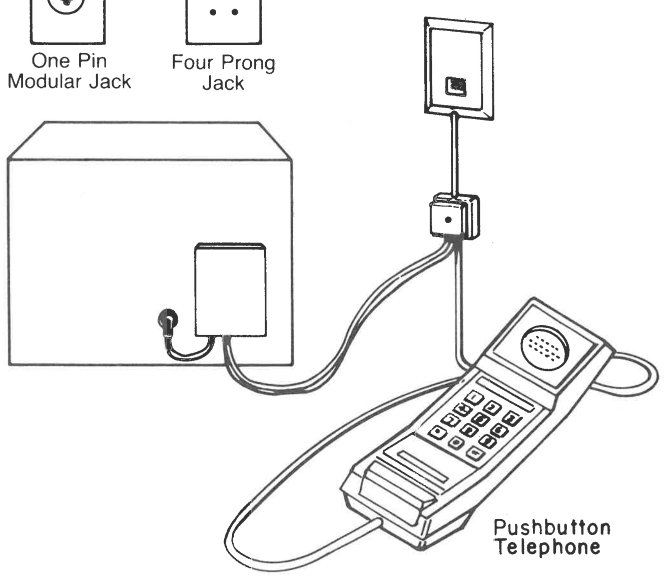




One Pin Modular Jack



Four Prong Jack



Pushbutton Telephone

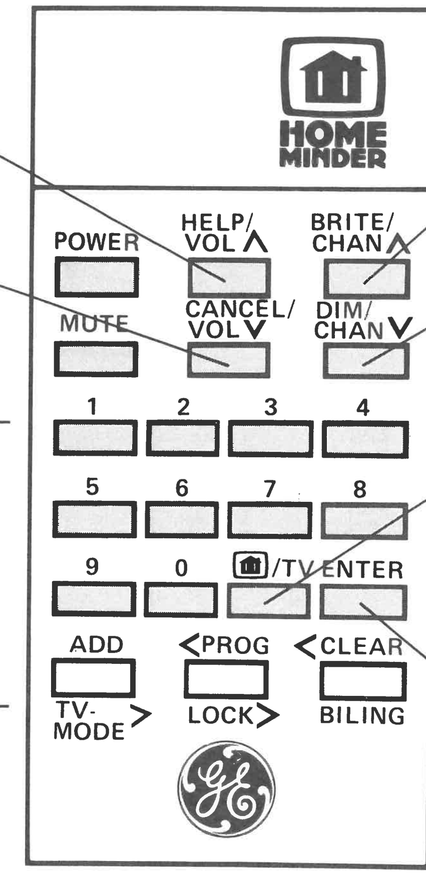
CONTROLS

The basic controls you will need to operate the HomeMinder system are contained in the remote control handset included with your HomeMinder system. The HomeMinder system control buttons are explained below. See the separate TV use and care manual for the use of the remote control with the TV function. Point the front end of the remote control at the TV when pressing the buttons. For best performance, the remote control should be within 20 feet of the TV, at no more than a 45° angle.

HELP - Provides information and assistance if you become confused at any point while you are using HomeMinder system.

CANCEL - The cancel command will allow you to begin again if you make a mistake while using the HomeMinder system. You will return to the "Begin Here" screen when CANCEL is pressed. The cancel command will let you re-enter the number if you make an error while entering a number.

NUMERICAL KEYS - These keys allow you to select items from the menus shown on your television screen by HomeMinder system. For example, to select option 4 simply press the "4" key on your remote control. These keys are also used to set times and dates.



BRITE - This key is used to select the intensity (brighter) of the light you have chosen to turn on.

DIM - This key is used to select the intensity (dimmer) of the light you have chosen to turn on.

/TV - This switch allows you to select between watching TV programs and operating your HomeMinder system. You may press this key at any point to return to your TV program. If you are in the middle of using your HomeMinder system, any incomplete command will be erased.
You must be in the HomeMinder system mode to enter commands to the HomeMinder system.

ENTER - Your HomeMinder system will occasionally direct you to press the ENTER key to complete a command or to see more information.

PROBLEMS YOU CAN SOLVE

Problem	Solution
TV will not come on	•Is the HomeMinder system TV power plug completely connected to an AC outlet? •Is the on/off button on your television set to "on"? •Is the AC outlet operational? (Is there power coming to it? Try plugging in a lamp directly).
HomeMinder™ System Will Not Come On	•Be sure the batteries are properly inserted into the remote control. •Press the "HomeMinder/TV" button on the remote control while aiming directly at the HomeMinder system.
I Forgot My Password	•Press "/TV" while watching TV or "CANCEL" while using HomeMinder system. Then press "HELP", "0", and then "0" again. You will bypass the password and can then choose to change or eliminate it.

PROBLEMS YOU (

Problem
The HomeMinder system operates sluggishly
Lamps Or Appliances Seem To Turn On By Themselves
Interference on the TV Screen
Nothing Happens When The Remote Co Button Is Pushed
My HomeMinder™ System Switched Bac TV by itself
HomeMinder™ System Will Not Work by
HomeMinder™ System Causes AM Radio Interference
I Want to Begin Again
A LampMinder™ Module or ApplianceMi Module Does Not Work
The Room or position that I want to inst lamp or ApplianceMinder™ Modules doe appear on HomeMinder System Screen does not have a number next to it.

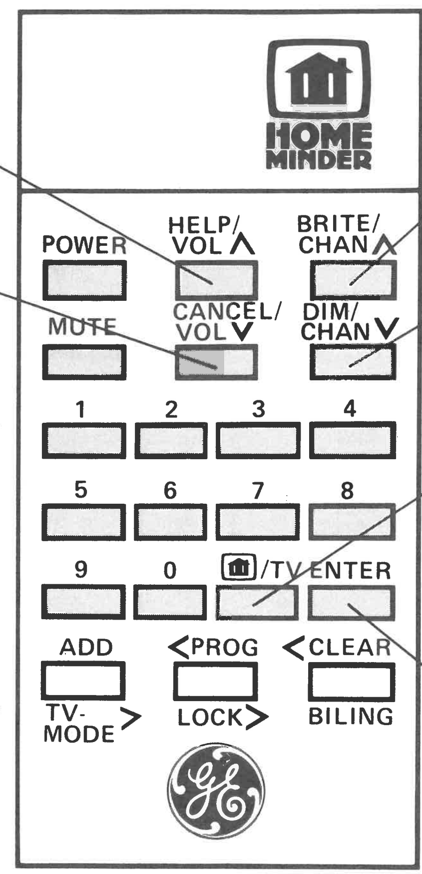
CONTROLS

The basic controls you will need to operate the HomeMinder system are contained in the remote control handset included with your HomeMinder system. The HomeMinder system control buttons are explained below. See the separate TV use and care manual for the use of the remote control with the TV function. Point the front end of the remote control at the TV when pressing the buttons. For best performance, the remote control should be within 20 feet of the TV, at no more than a 45° angle.

HELP - Provides information and assistance if you become confused at any point while you are using HomeMinder system.

CANCEL - The cancel command will allow you to begin again if you make a mistake while using the HomeMinder system. You will return to the "Begin Here" screen when CANCEL is pressed. The cancel command will let you re-enter the number if you make an error while entering a number.

NUMERICAL KEYS - These keys allow you to select items from the menus shown on your television screen by HomeMinder system. For example, to select option 4 simply press the "4" key on your remote control. These keys are also used to set times and dates.



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DIM - This key is used to select the intensity (dimmer) of the light you have chosen to turn on.

/TV - This switch allows you to select between watching TV programs and operating your HomeMinder system. You may press this key at any point to return to your TV program. If you are in the middle of using your HomeMinder system, any incomplete command will be erased.
You must be in the HomeMinder system mode to enter commands to the HomeMinder system.

ENTER - Your HomeMinder system will occasionally direct you to press the ENTER key to complete a command or to see more information.

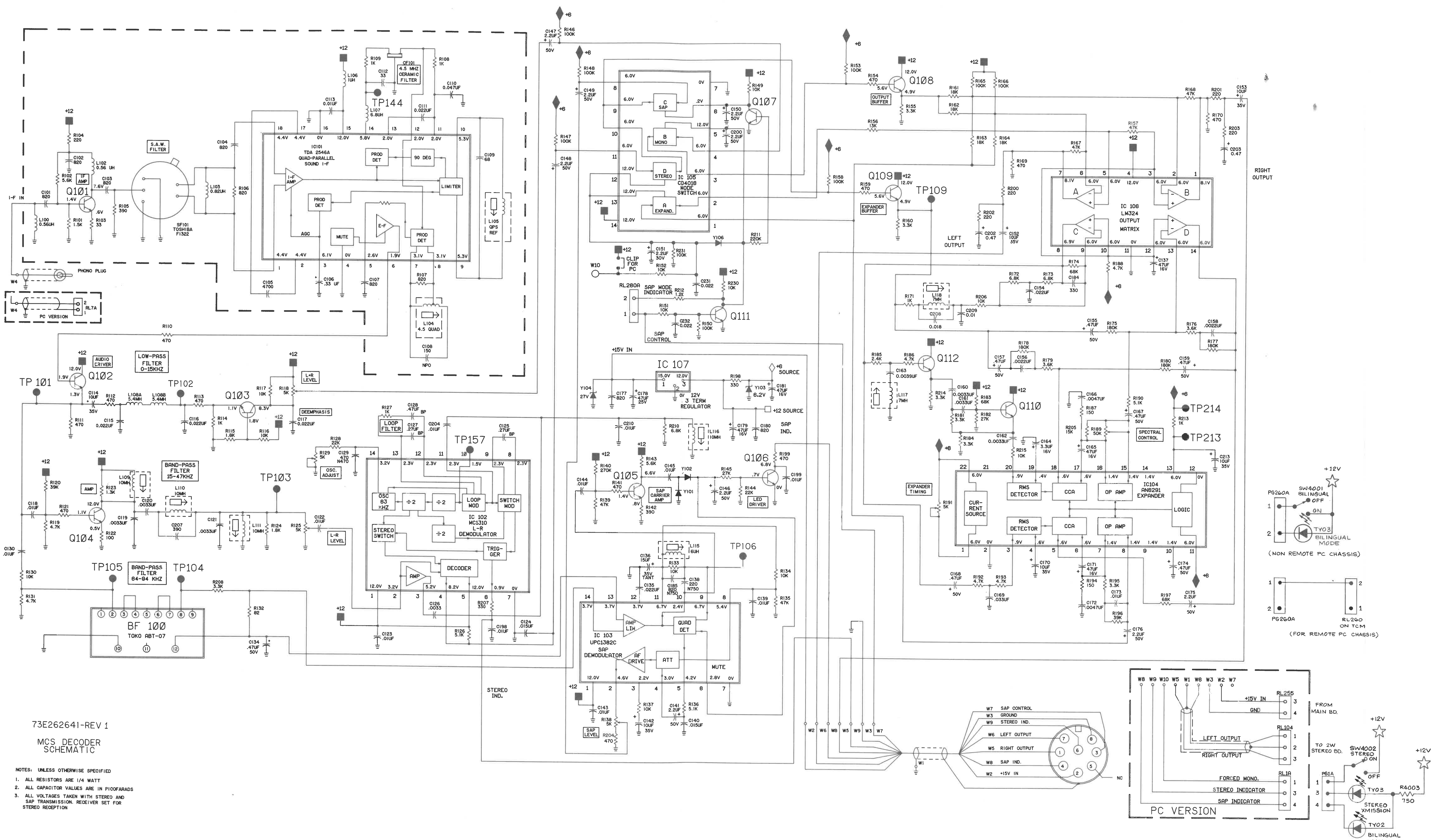
PROBLEMS YOU CAN SOLVE

Problem	Solution
TV will not come on	•Is the HomeMinder system TV power plug completely connected to an AC outlet? •Is the on/off button on your television set to "on"? •Is the AC outlet operational? (Is there power coming to it? Try plugging in a lamp directly).
HomeMinder™ System Will Not Come On	•Be sure the batteries are properly inserted into the remote control. •Press the "HomeMinder/TV" button on the remote control while aiming directly at the HomeMinder system.
I Forgot My Password	•Press "/TV" while watching TV or "CANCEL" while using HomeMinder system. Then press "HELP", "0", and then "0" again. You will bypass the password and can then choose to change or eliminate it.

PROBLEMS YOU CAN SOLVE

Problem	Solution
The HomeMinder system operates sluggishly	•Be sure there is no interference in the AC power line. Some products, such as intercoms which plug into the same AC line will cause this. Unplug or turn off the product.
Lamps Or Appliances Seem To Turn On By Themselves	•Be sure "Automatic Security" is off. (The key is blue when Automatic Security is off). •Change the home code to a different letter because one of your neighbors may have a HomeMinder system on the same code. (To do this, you must remove the lights and appliances that you have already installed on your HomeMinder system and reinstall them, selecting a new home code). •Use a password to prevent others from using your HomeMinder system.
Interference on the TV Screen	•Move your rabbit ears antenna as far from the HomeMinder system unit (located on the back of the set) as possible. •Some devices (such as intercoms) may cause interference in your AC line. Make sure such devices are turned off while using the HomeMinder system.
Nothing Happens When The Remote Control Button Is Pushed	•Be sure the batteries are inserted into the remote control correctly. •Be sure to aim the remote control directly at the TV when pressing the keys.
My HomeMinder™ System Switched Back to TV by itself	•Probably caused by unusual surge, a temporary power interruption from your power company. •Press " /TV" again to return to HomeMinder system mode.
HomeMinder™ System Will Not Work by Phone	•Be sure your HomeMinder system is plugged into a phone jack and that the connectors are secure. •Call from a Touch-Tone phone. •Be sure the lamp or appliance you want to operate is in the "on" position prior to having connected to a LampMinder or ApplianceMinder module. •Be sure the unit you want to use is on the same home code as your TV. •If you have a phone answering machine, see the telephone operation and messages section.
HomeMinder™ System Causes AM Radio Interference	•LampMinder modules and Light Switches include dimmers which can cause AM radio interference. •By replacing the LampMinder modules with ApplianceMinder modules you can eliminate that source of interference, while maintaining the ability to turn lamps on and off.
I Want to Begin Again	•Press "Help" then press "0". HomeMinder system will ask you if you want to reset the system. If so, press "1".
A LampMinder™ Module or ApplianceMinder™ Module Does Not Work	•Be sure that your home code and unit code are set correctly, corresponding to the picture on your television. •Be sure your light or appliance is in the "on" position before you plug it into the LampMinder or ApplianceMinder modules. •Check to see whether the LampMinder or ApplianceMinder module works in a different outlet. In a few homes the wiring may prevent HomeMinder system from working in every outlet. •Be sure there is no interference in the AC line. Products such as intercoms which plug into the A/C line should be off when you operate/program HomeMinder system. •If you are using the MiniMinder module, is the correct HomeCode set on the MiniMinder module?
The Room or position that I want to install a lamp or ApplianceMinder™ Modules does not appear on HomeMinder System Screen or does not have a number next to it.	•Use the SPARE Room as a substitute. HomeMinder system works through the wiring in your home and searches for the module (with the proper code) and not the room it is in.

STEREO/BILINGUAL DECODER (SBA-800) SCHEMATIC DIAGRAM (PM-D CHASSIS)



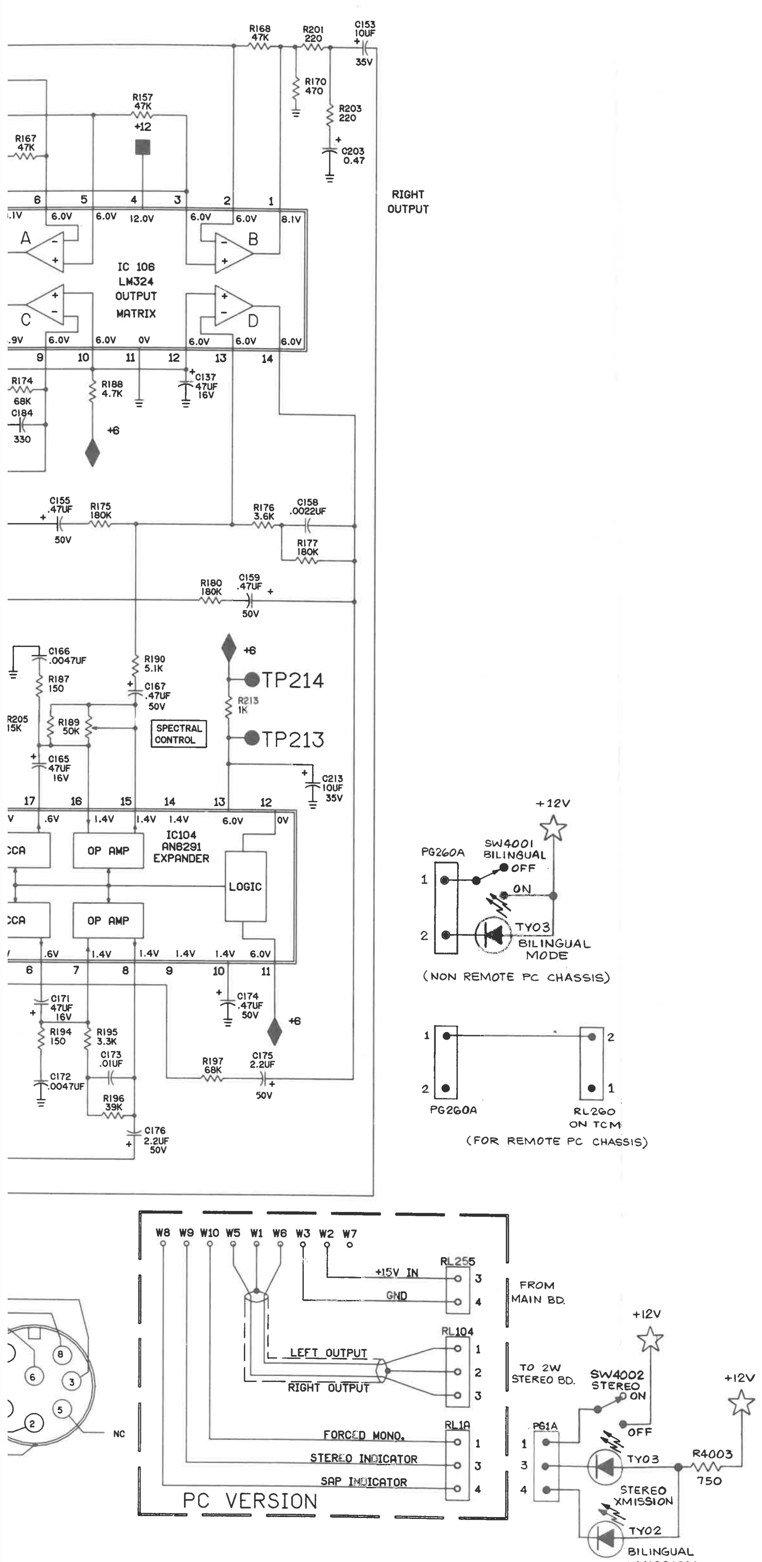
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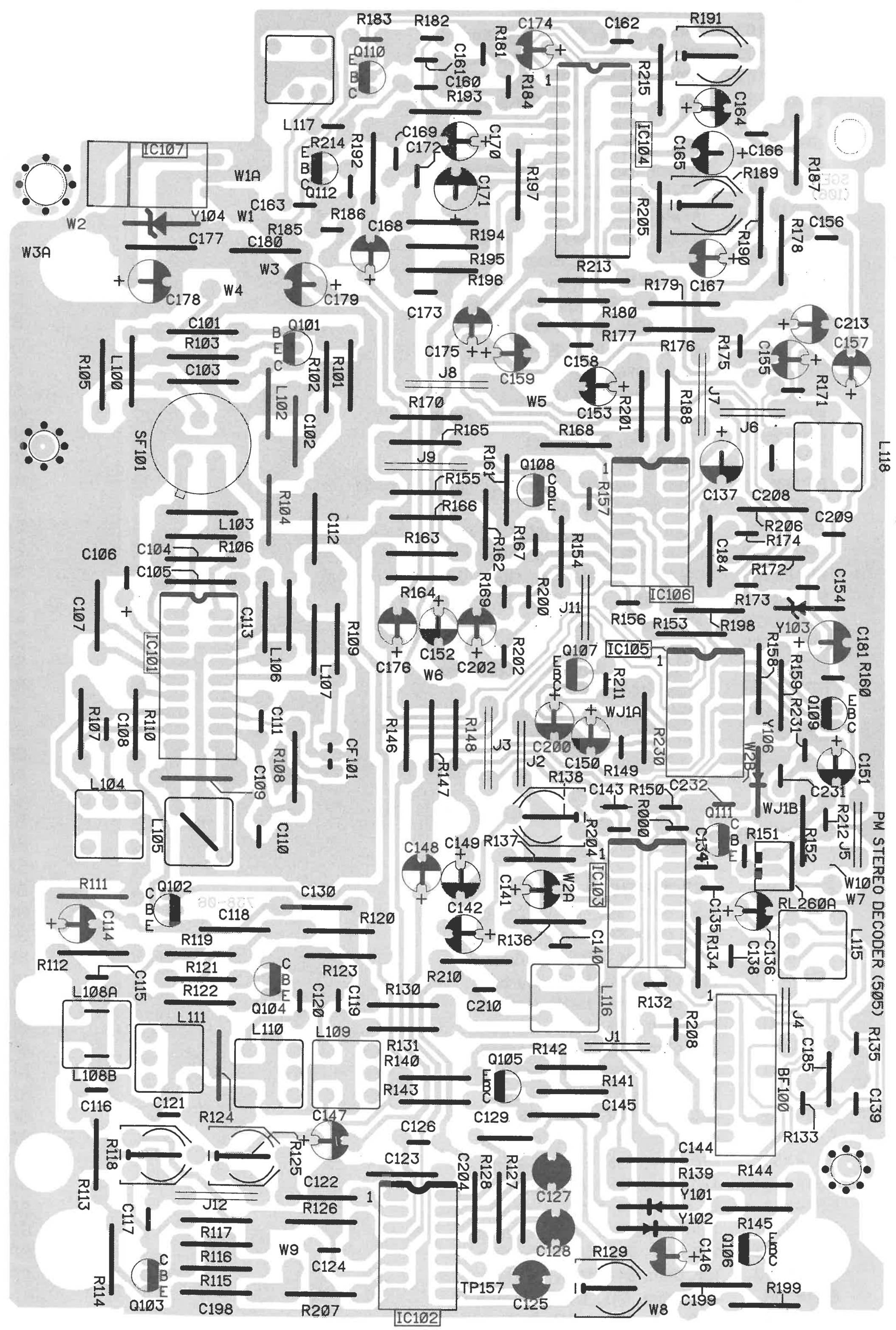
MCS DECODER SCHEMATIC

NOTES: UNLESS OTHERWISE SPECIFIED
1. ALL RESISTORS ARE 1/4 WATT
2. ALL CAPACITOR VALUES ARE IN PICOFARADS
3. ALL VOLTAGES TAKEN WITH STEREO AND SAP TRANSMISSION. RECEIVER SET FOR STEREO RECEPTION

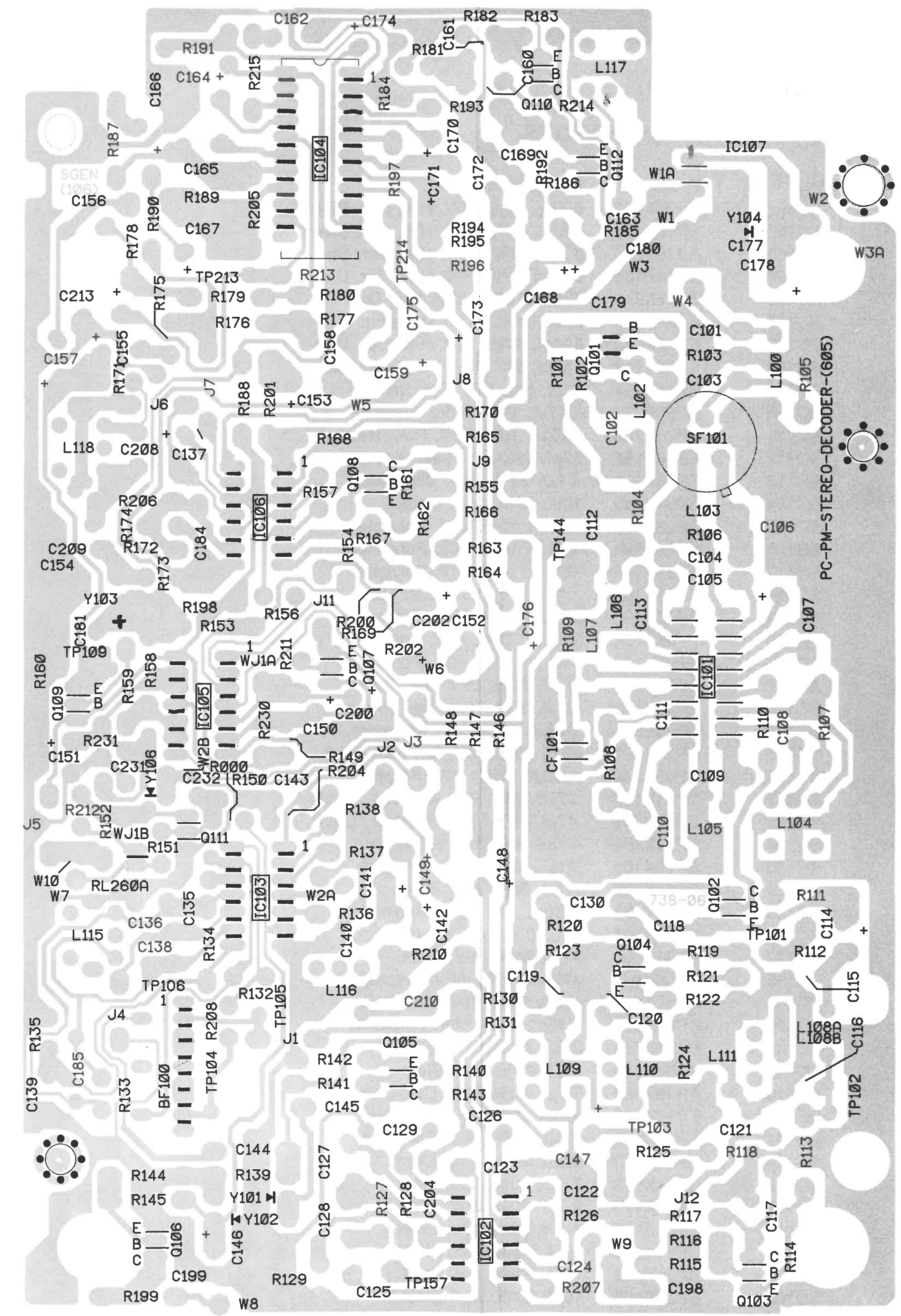
IASSIS)

STEREO/BILINGUAL DECODER CIRCUIT BOARD LAYOUT (PM-D CHASSIS)





COMPONENT SIDE



COPPER SIDE

SBA 800 STEREO/BILINGUAL ADAPTOR (PM-D CHASSIS) EP90X56

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
SC101	EP18X180	820pf, 10%, 50V, HiK, Cer. Disc
SC102	EP18X180	820pf, 10%, 50V, HiK, Cer. Disc
SC103	EP18X180	820pf, 10%, 50V, HiK, Cer. Disc
SC104	EP18X180	820pf, 10%, 50V, HiK, Cer. Disc
SC105	EP18X216	4700pf, 30%, 25V, Cer. Disc
SC106	EP31X192	.33μf, 20%, 50V, Tantalum
SC107	EP18X180	820pf, 10%, 50V, HiK, Cer. Disc
SC108	EP18X113	150pf, 5%, 50V, NPO, Cer. Disc
SC109	EP18X191	68pf, 5%, 50V, Cer. Disc
SC110	EP25X87	.047μf, 10%, 50V, Polyester
SC111	EP25X183	.022μf, 10%, 50V, Polyester
SC112	EP18X188	33pf, 5%, 50V, Cer. Disc
SC113	EP18X169	.01μf, 30%, 25V, Cer. Disc
SC114	EP31X149	10μf, 20%, 35V, Elect.
SC115	EP25X183	.022μf, 10%, 50V, Polyester
SC116	EP25X183	.022μf, 10%, 50V, Polyester
SC117	EP25X183	.022μf, 10%, 50V, Polyester
SC118	EP18X169	.01μf, 30%, 25V, Cer. Disc
SC119	EP25X102	3300pf, 10%, 50V, Polyester
SC120	EP25X102	3300pf, 10%, 50V, Polyester
SC121	EP25X102	3300pf, 10%, 50V, Polyester
SC122	EP18X169	.01μf, 30%, 25V, Cer. Disc
SC123	EP18X169	.01μf, 30%, 25V, Cer. Disc
SC124	EP25X80	.015μf, 10%, 50V, Polyester
SC125	EP31X190	27μf, 20%, 25V, Bi Polar, Elect.
SC126	EP25X102	3300pf, 10%, 50V, Polyester
SC127	EP31X190	.27μf, 20%, 25V, Bi Polar, Elect.
SC128	EP31X191	.47μf, 20%, 25V, Bi Polar, Elect.
SC129	EP18X204	470pf, 5%, 50V, N220, Cer. Disc
SC130	EP18X169	.01μf, 30%, 25V, Cer. Disc
SC134	EP31X138	.47μf, 20%, 50V, Elect.
SC135	EP25X183	.022μf, 10%, 50V, Polyester
SC136	EP31X197	5μf, 10%, 20V, Tanulam
SC137	EP31X45	47μf, 20%, 16V, Elect.
SC138	EP25X165	4700pf, 10%, 50V, Polyester
SC139	EP18X169	.01μf, 30%, 25V, Cer. Disc
SC140	EP25X80	.015μf, 10%, 50V, Polyester
SC141	EP31X173	2.2μf, 20%, 50V, Elect.
SC142	EP31X149	10μf, 20%, 35V, Elect.
SC143	EP18X169	.01μf, 30%, 25V, Cer. Disc
SC144	EP18X169	.01μf, 30%, 25V, Cer. Disc
SC145	EP18X169	.01μf, 30%, 25V, Cer. Disc
SC146	EP31X173	2.2μf, 20%, 50V, Elect.
SC147	EP31X173	2.2μf, 20%, 50V, Elect.
SC148	EP31X173	2.2μf, 20%, 50V, Elect.
SC149	EP31X173	2.2μf, 20%, 50V, Elect.
SC150	EP31X149	10μf, 20%, 35V, Elect.
SC151	EP31X149	10μf, 20%, 35V, Elect.
SC152	EP31X149	10μf, 20%, 35V, Elect.
SC153	EP31X149	10μf, 20%, 35V, Elect.
SC154	EP25X183	.022μf, 10%, 50V, Polyester
SC155	EP31X138	.47μf, 20%, 50V, Elect.
SC156	EP25X164	2200pf, 10%, 50V, Polyester
SC157	EP31X138	.47μf, 20%, 50V, Elect.
SC158	EP25X164	2200pf, 10%, 50V, Polyester
SC159	EP31X138	.47μf, 20%, 50V, Elect.
SC160	EP25X102	3300pf, 10%, 50V, Polyester
SC161	EP25X102	3300pf, 10%, 50V, Polyester
SC162	EP25X102	3300pf, 10%, 50V, Polyester
SC163	EP25X188	3900pf, 10%, 50V, Polyester
SC164	EP31X189	3.3μf, 20%, 50V, Elect.
SC165	EP31X45	47μf, 20%, 16V, Elect.
SC166	EP25X165	4700pf, 10%, 50V, Polyester
SC167	EP31X138	.47μf, 20%, 50V, Elect.
SC168	EP31X138	.47μf, 20%, 50V, Elect.
SC169	EP25X171	.033μf, 10%, 50V, Polyester
SC170	EP31X149	10μf, 20%, 35V, Elect.
SC171	EP31X45	47μf, 20%, 16V, Elect.
SC172	EP25X165	4700pf, 10%, 50V, Polyester
SC173	EP25X131	.01μf, 10%, 50V, Polyester
SC174	EP31X138	.47μf, 20%, 50V, Elect.
SC175	EP31X173	2.2μf, 20%, 50V, Elect.
SC176	EP31X173	2.2μf, 20%, 50V, Elect.
SC177	EP18X180	820pf, 10%, 50V, HiK, Cer. Disc
SC178	EP31X45	47μf, 20%, 25V, Elect.
SC179	EP31X45	47μf, 20%, 16V, Elect.
SC180	EP18X180	820pf, 10%, 50V, HiK, Cer. Disc
SC181	EP31X45	47μf, 20%, 16V, Elect.
SC184	EP18X196	330pf, 10%, 50V, HiK, Cer. Disc
SC198	EP18X169	.01μf, 30%, 25V, Cer. Disc
SC199	EP18X169	.01μf, 30%, 25V, Cer. Disc
SC202	EP31X172	.47μf, 20%, 50V, Elect.
SC203	EP31X172	.47μf, 20%, 50V, Elect.
SC204	EP18X169	.01μf, 30%, 25V, Cer. Disc
SC207	EP18X296	390pf, 10%, 50V, HiK, Cer. Disc
SC208	EP25X186	.018μf, 10%, 50V, Polyester
SC209	EP25X131	.01μf, 10%, 50V, Polyester
SC213	EP31X149	10μf, 20%, 35V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
SR101	ES14X62	1.5K ohm, 5%, 1/4W, Carbon
SR102	EP14X379	5.6K ohm, 5%, 1/4W, Carbon
SR103	ES14X56	33 ohm, 5%, 1/4W, Carbon
SR104	EP14X318	220 ohm, 5%, 1/4W, Carbon
SR105	ES14X57	390 ohm, 5%, 1/4W, Carbon
SR106	ES14X61	820 ohm, 5%, 1/4W, Carbon
SR107	ES14X61	820 ohm, 5%, 1/4W, Carbon
SR108	ES14X71	1K ohm, 5%, 1/4W, Carbon
SR109	ES14X71	1K ohm, 5%, 1/4W, Carbon
SR110	ES14X58	470 ohm, 5%, 1/4W, Carbon
SR111	ES14X58	470 ohm, 5%, 1/4W, Carbon
SR112	ES14X58	470 ohm, 5%, 1/4W, Carbon
SR113	ES14X58	470 ohm, 5%, 1/4W, Carbon
SR114	ES14X71	1K ohm, 5%, 1/4W, Carbon
SR115	EP14X361	1.8K ohm, 5%, 1/4W, Carbon
SR116	EP14X103	10K ohm, 5%, 1/4W, Carbon
SR117	EP14X103	10K ohm, 5%, 1/4W, Carbon
SR119	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
SR120	EP14X447	39K ohm, 5%, 1/4W, Carbon
SR121	ES14X58	470 ohm, 5%, 1/4W, Carbon
SR122	ES14X70	100 ohm, 5%, 1/4W, Carbon
SR123	EP14X431	1.3K ohm, 5%, 1/4W, Carbon
SR124	EP14X361	1.8K ohm, 5%, 1/4W, Carbon
SR126	EP14X418	5.1K ohm, 5%, 1/4W, Carbon
SR127	ES14X71	1K ohm, 5%, 1/4W, Carbon
SR128	EP14X104	22K ohm, 5%, 1/4W, Carbon
SR130	EP14X103	10K ohm, 5%, 1/4W, Carbon
SR131	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
SR132	EP14X428	82 ohm, 5%, 1/4W, Carbon
SR133	ES14X70	100 ohm, 5%, 1/4W, Carbon
SR134	EP14X103	10K ohm, 5%, 1/4W, Carbon
SR135	EP14X125	47K ohm, 5%, 1/4W, Carbon
SR136	EP14X418	5.1K ohm, 5%, 1/4W, Carbon
SR137	EP14X103	10K ohm, 5%, 1/4W, Carbon
SR139	EP14X125	47K ohm, 5%, 1/4W, Carbon
SR140	EP14X97	270K ohm, 5%, 1/4W, Carbon
SR141	ES14X58	470 ohm, 5%, 1/4W, Carbon
SR142	ES14X61	820 ohm, 5%, 1/4W, Carbon
SR143	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
SR144	EP14X104	22K ohm, 5%, 1/4W, Carbon
SR145	EP14X380	27K ohm, 5%, 1/4W, Carbon
SR146	EP14X105	100K ohm, 5%, 1/4W, Carbon
SR147	EP14X105	100K ohm, 5%, 1/4W, Carbon
SR148	EP14X105	100K ohm, 5%, 1/4W, Carbon
SR149	EP14X103	10K ohm, 5%, 1/4W, Carbon
SR150	EP14X105	100K ohm, 5%, 1/4W, Carbon
SR151	EP14X105	100K ohm, 5%, 1/4W, Carbon
SR152	EP14X103	10K ohm, 5%, 1/4W, Carbon
SR153	EP14X105	100K ohm, 5%, 1/4W, Carbon
SR154	ES14X58	470 ohm, 5%, 1/4W, Carbon
SR155	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
SR156	EP14X464	13K ohm, 5%, 1/4W, Carbon
SR157	EP14X125	47K ohm, 5%, 1/4W, Carbon
SR158	EP14X105	100K ohm, 5%, 1/4W, Carbon
SR159	ES14X58	470 ohm, 5%, 1/4W, Carbon
SR160	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
SR161	EP14X414	18K ohm, 5%, 1/4W, Carbon
SR162	EP14X414	18K ohm, 5%, 1/4W, Carbon
SR163	EP14X414	18K ohm, 5%, 1/4W, Carbon
SR164	EP14X414	18K ohm, 5%, 1/4W, Carbon
SR165	EP14X105	100K ohm, 5%, 1/4W, Carbon
SR166	EP14X105	100K ohm, 5%, 1/4W, Carbon
SR167	EP14X125	47K ohm, 5%, 1/4W, Carbon
SR168	EP14X125	47K ohm, 5%, 1/4W, Carbon
SR169	ES14X58	470 ohm, 5%, 1/4W, Carbon
SR170	ES14X58	470 ohm, 5%, 1/4W, Carbon
SR171	ES14X71	1K ohm, 5%, 1/4W, Carbon
SR172	EP14X456	6.8K ohm, 5%, 1/4W, Carbon
SR173	EP14X456	6.8K ohm, 5%, 1/4W, Carbon
SR174	EP14X119	68K ohm, 5%, 1/4W, Carbon
SR175	EP14X196	180K ohm, 5%, 1/4W, Carbon
SR176	EP14X436	3.6K ohm, 5%, 1/4W, Carbon
SR177	EP14X196	180K ohm, 5%, 1/4W, Carbon
SR178	EP14X196	180K ohm, 5%, 1/4W, Carbon
SR179	EP14X436	3.6K ohm, 5%, 1/4W, Carbon
SR180	EP14X196	180K ohm, 5%, 1/4W, Carbon
SR181	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
SR182	EP14X380	27K ohm, 5%, 1/4W, Carbon
SR183	EP14X119	68K ohm, 5%, 1/4W, Carbon
SR184	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
SR185	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
SR186	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
SR187	EP14X120	150 ohm, 5%, 1/4W, Carbon
SR188	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
SR190	EP14X418	5.1K ohm, 5%, 1/4W, Carbon
SR192	ES14X65	4.7K ohm, 5%, 1/4W, Carbon

123	EP14X431	1.3K ohm, 5%, 1/4W, Carbon
124	EP14X361	1.8K ohm, 5%, 1/4W, Carbon
126	EP14X418	5.1K ohm, 5%, 1/4W, Carbon
127	ES14X71	1K ohm, 5%, 1/4W, Carbon
128	EP14X104	22K ohm, 5%, 1/4W, Carbon
130	EP14X103	10K ohm, 5%, 1/4W, Carbon
131	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
132	EP14X428	82 ohm, 5%, 1/4W, Carbon
133	ES14X70	100 ohm, 5%, 1/4W, Carbon
134	EP14X103	10K ohm, 5%, 1/4W, Carbon
135	EP14X125	47K ohm, 5%, 1/4W, Carbon
136	EP14X418	5.1K ohm, 5%, 1/4W, Carbon
137	EP14X103	10K ohm, 5%, 1/4W, Carbon
139	EP14X125	47K ohm, 5%, 1/4W, Carbon
140	EP14X97	270K ohm, 5%, 1/4W, Carbon
141	ES14X58	470 ohm, 5%, 1/4W, Carbon
142	ES14X61	820 ohm, 5%, 1/4W, Carbon
143	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
144	EP14X104	22K ohm, 5%, 1/4W, Carbon
145	EP14X380	27K ohm, 5%, 1/4W, Carbon
146	EP14X105	100K ohm, 5%, 1/4W, Carbon
147	EP14X105	100K ohm, 5%, 1/4W, Carbon
148	EP14X105	100K ohm, 5%, 1/4W, Carbon
149	EP14X103	10K ohm, 5%, 1/4W, Carbon
150	EP14X105	100K ohm, 5%, 1/4W, Carbon
151	EP14X105	100K ohm, 5%, 1/4W, Carbon
152	EP14X103	10K ohm, 5%, 1/4W, Carbon
153	EP14X105	100K ohm, 5%, 1/4W, Carbon
154	ES14X58	470 ohm, 5%, 1/4W, Carbon
155	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
156	EP14X464	13K ohm, 5%, 1/4W, Carbon
157	EP14X125	47K ohm, 5%, 1/4W, Carbon
158	EP14X105	100K ohm, 5%, 1/4W, Carbon
159	ES14X58	470 ohm, 5%, 1/4W, Carbon
160	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
161	EP14X414	18K ohm, 5%, 1/4W, Carbon
162	EP14X414	18K ohm, 5%, 1/4W, Carbon
163	EP14X414	18K ohm, 5%, 1/4W, Carbon
164	EP14X414	18K ohm, 5%, 1/4W, Carbon
165	EP14X105	100K ohm, 5%, 1/4W, Carbon
166	EP14X105	100K ohm, 5%, 1/4W, Carbon
167	EP14X125	47K ohm, 5%, 1/4W, Carbon
168	EP14X125	47K ohm, 5%, 1/4W, Carbon
69	ES14X58	470 ohm, 5%, 1/4W, Carbon
70	ES14X58	470 ohm, 5%, 1/4W, Carbon
71	ES14X71	1K ohm, 5%, 1/4W, Carbon
72	EP14X456	6.8K ohm, 5%, 1/4W, Carbon
73	EP14X456	6.8K ohm, 5%, 1/4W, Carbon
74	EP14X119	68K ohm, 5%, 1/4W, Carbon
75	EP14X196	180K ohm, 5%, 1/4W, Carbon
76	EP14X436	3.6K ohm, 5%, 1/4W, Carbon
77	EP14X196	180K ohm, 5%, 1/4W, Carbon
78	EP14X196	180K ohm, 5%, 1/4W, Carbon
79	EP14X436	3.6K ohm, 5%, 1/4W, Carbon
80	EP14X196	180K ohm, 5%, 1/4W, Carbon
81	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
82	EP14X380	27K ohm, 5%, 1/4W, Carbon
83	EP14X119	68K ohm, 5%, 1/4W, Carbon
84	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
85	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
86	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
87	EP14X120	150 ohm, 5%, 1/4W, Carbon
88	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
90	EP14X418	5.1K ohm, 5%, 1/4W, Carbon
92	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
SR193	ES14X65	4.7K ohm, 5%, 1/4W, Carbon
SR194	EP14X120	150 ohm, 5%, 1/4W, Carbon
SR195	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
SR196	EP14X447	39K ohm, 5%, 1/4W, Carbon
SR197	EP14X119	68K ohm, 5%, 1/4W, Carbon
SR198	EP14X128	330 ohm, 5%, 1/4W, Carbon
SR199	ES14X58	470 ohm, 5%, 1/4W, Carbon
SR200	EP14X445	220 ohm, 5%, 1/4W, Carbon
SR201	EP14X445	220 ohm, 5%, 1/4W, Carbon
SR203	EP14X445	220 ohm, 5%, 1/4W, Carbon
SR204	EP14X243	2.2K ohm, 5%, 1/4W, Carbon
SR205	EP14X398	15K ohm, 5%, 1/4W, Carbon
SR206	EP14X103	10K ohm, 5%, 1/4W, Carbon
SR207	EP14X128	330 ohm, 5%, 1/4W, Carbon
SR208	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
SR211	EP14X403	220K ohm, 5%, 1/4W, Carbon
SR213	ES14X71	1K ohm, 5%, 1/4W, Carbon

POTENTIOMETERS

REF. NO.	PART NO.	DESCRIPTION
SR118	EP49X463	5K ohm, 20%
SR125	EP49X463	5K ohm, 20%
SR129	EP49X463	5K ohm, 20%
SR138	EP49X463	5K ohm, 20%
SR189	EP49X465	50K ohm, 20%
SR191	EP49X463	5K ohm, 20%

INTERGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
SIC101	EP84X254	OPS/FM DET
SIC102	EP84X253	(L—R) DEMOD
SIC103	EP84X216	(SAP) DEMOD
SIC104	EP84X252	BIPLR DBX (EXPANDER)
SIC105	EP84X30	QUAD BILATRL MODE SWITCH
SIC106	EP84X119	DL & QD DP AMP
SIC107	EP84X217	3 TERMINAL 12 VOLTAGE REGULATOR

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
SQ101	EP15X63	IF AMP-HF BILOLAR
SQ102	EP15X87	AUDIO DRIVER-Silicon, NPN
SQ103	EP15X87	DEEMPHASIS-Silicon, NPN
SQ104	EP15X87	AMP-Silicon, NPN
SQ105	EP15X87	SAP CARRIER AMP-Silicon, NPN
SQ106	EP15X87	LED DRIVER-Silicon, NPN
SQ107	EP15X87	SWITCH-Silicon, NPN
SQ108	EP15X87	PUTPUT BUFFER-Silicon, NPN
SQ109	EP15X87	EXPANDER BUFFER-Silicon, NPN
SQ110	EP15X87	AMP-Silicon, NPN
SQ111	EP15X87	SWITCH-Silicon, NPN

DIODES

REF. NO.	PART NO.	DESCRIPTION
SY101	ES16X27	Silicon
SY102	ES16X27	Silicon
SY103	EP16X153	Zener, 6.2V
SY104	EP16X156	Zener, 27V

COILS

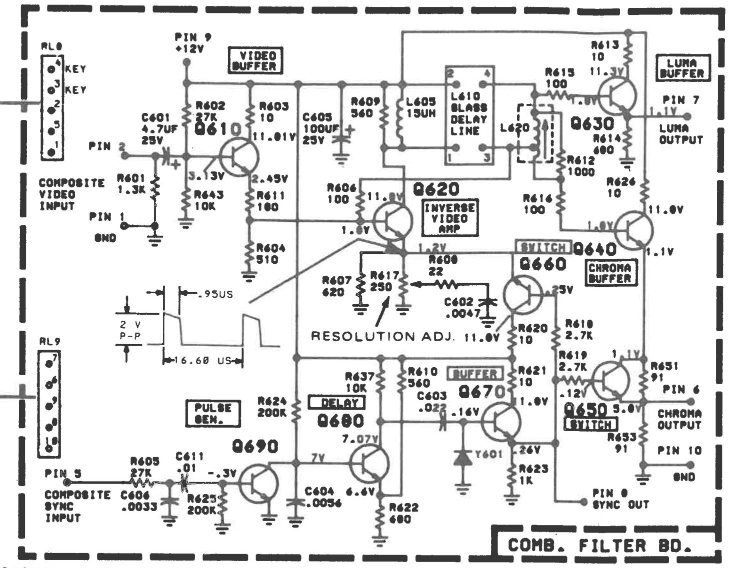
REF. NO.	PART NO.	DESCRIPTION
L101	EP41X155	FILTER-Bandpass
CF101	EP18X293	FILTER-Ceramic
SF101	EP41X158	COIL-Surface Wavefil.
SL101	EP36X494	CHOKE-.56μh, 10%
SL102	EP36X494	CHOKE-.56μh, 10%
SL103	EP36X495	CHOKE-.82μh, 10%
SL104	EP36X496	COIL-Tuned Inductor
SL105	EP36X433	COIL-Molded
SL106	EP36X309	CHOKE-1μh, 10%
SL107	EP36X265	CHOKE-6.8μh, 10%
SL108	EP36X493	COIL-Tuned Inductor
SL109	EP36X493	COIL-Tuned Inductor
SL110	EP36X493	COIL-Tuned Inductor
SL111	EP36X493	COIL-Tuned Inductor
SL115	EP36X491	COIL-Tuned Inductor
SL116	EP36X493	COIL-Tuned Inductor
SL117	EP36X447	COIL-Remote Control
SL118	EP36X447	COIL-Remote Control

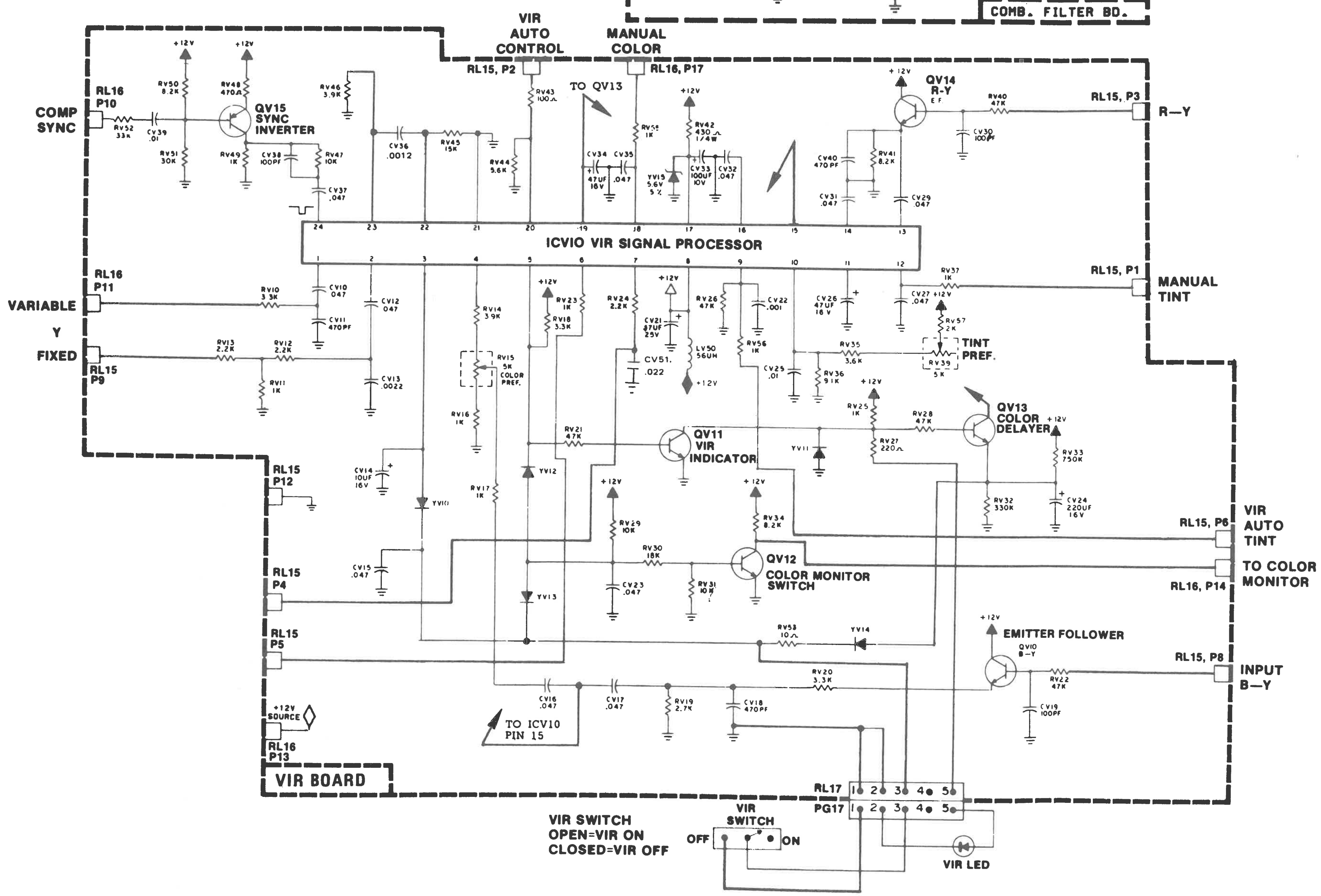
MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
	EP8X98	CABLE-Coaxial, W/Phono Plug
	EP8X139	CABLE-Bypass, Din, 9 Pins

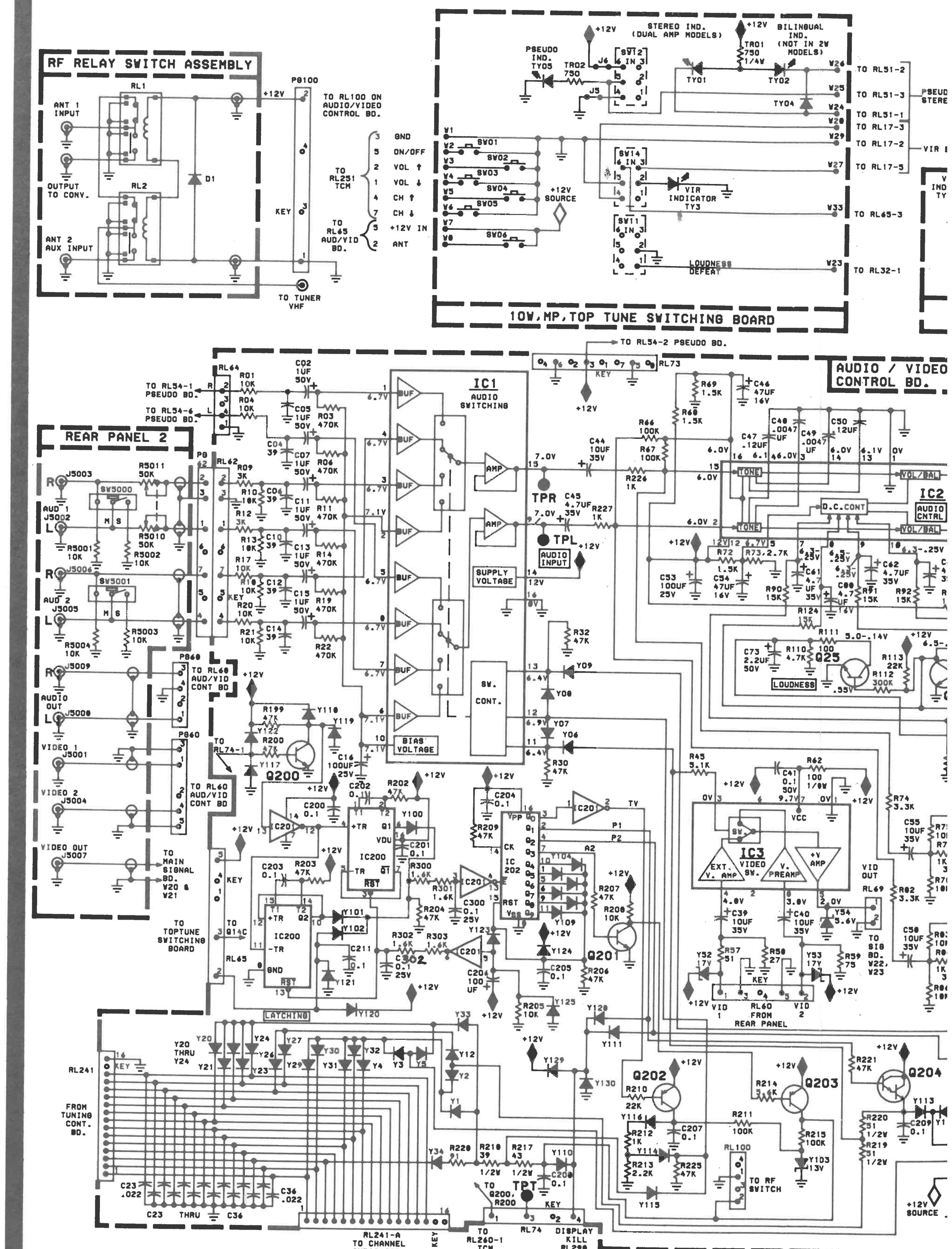
IMPORTANT SAFETY NOTICE

Product safety should be considered when component replacement is made in any area of a receiver. The (★) beside a part in the parts list and the shaded areas of the schematic diagram designates components in which safety can be of special significance. It is particularly recommended that exact cataloged parts be used for replacement of components which are designated by a (★) in the parts list and the shaded areas on the schematic diagram. Use of substitute replacement parts which do not have the same safety characteristics as recommended in factory service information may create Shock, Fire or other hazards, or excessive X-Radiation.

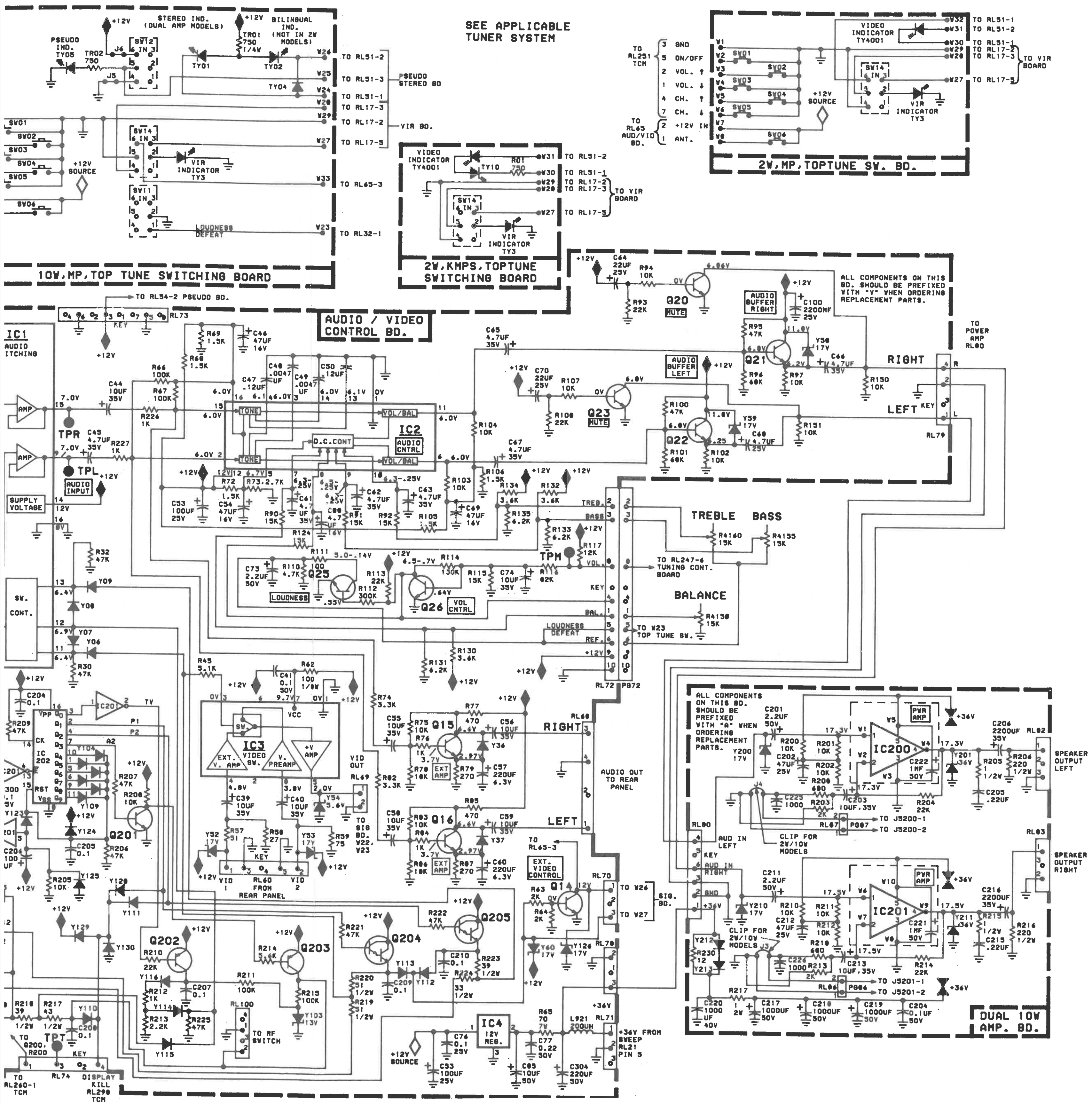


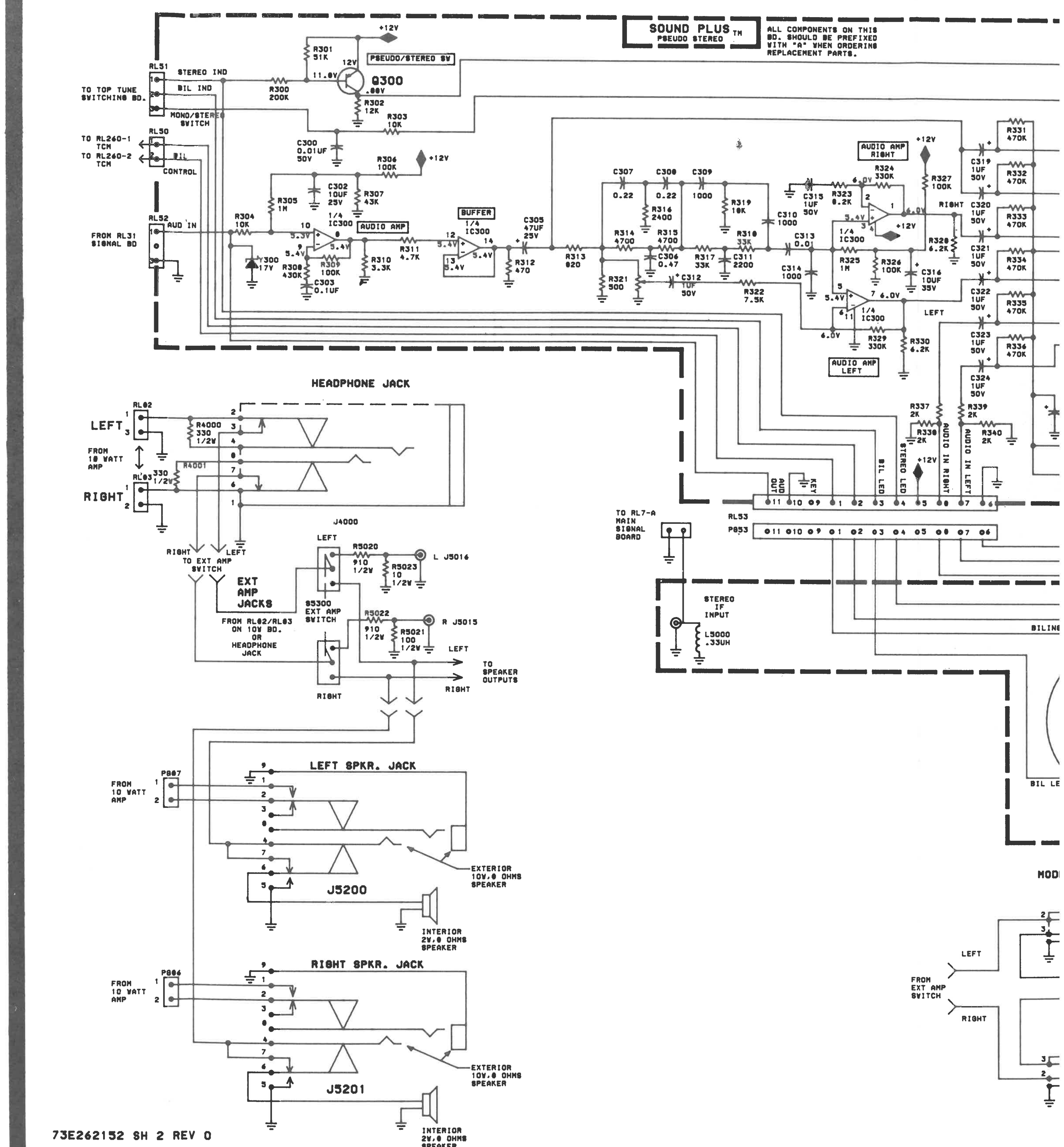


PM/VIR BOARD AND COMB-FILTER BOARD SCHEMATIC DIAGRAMS



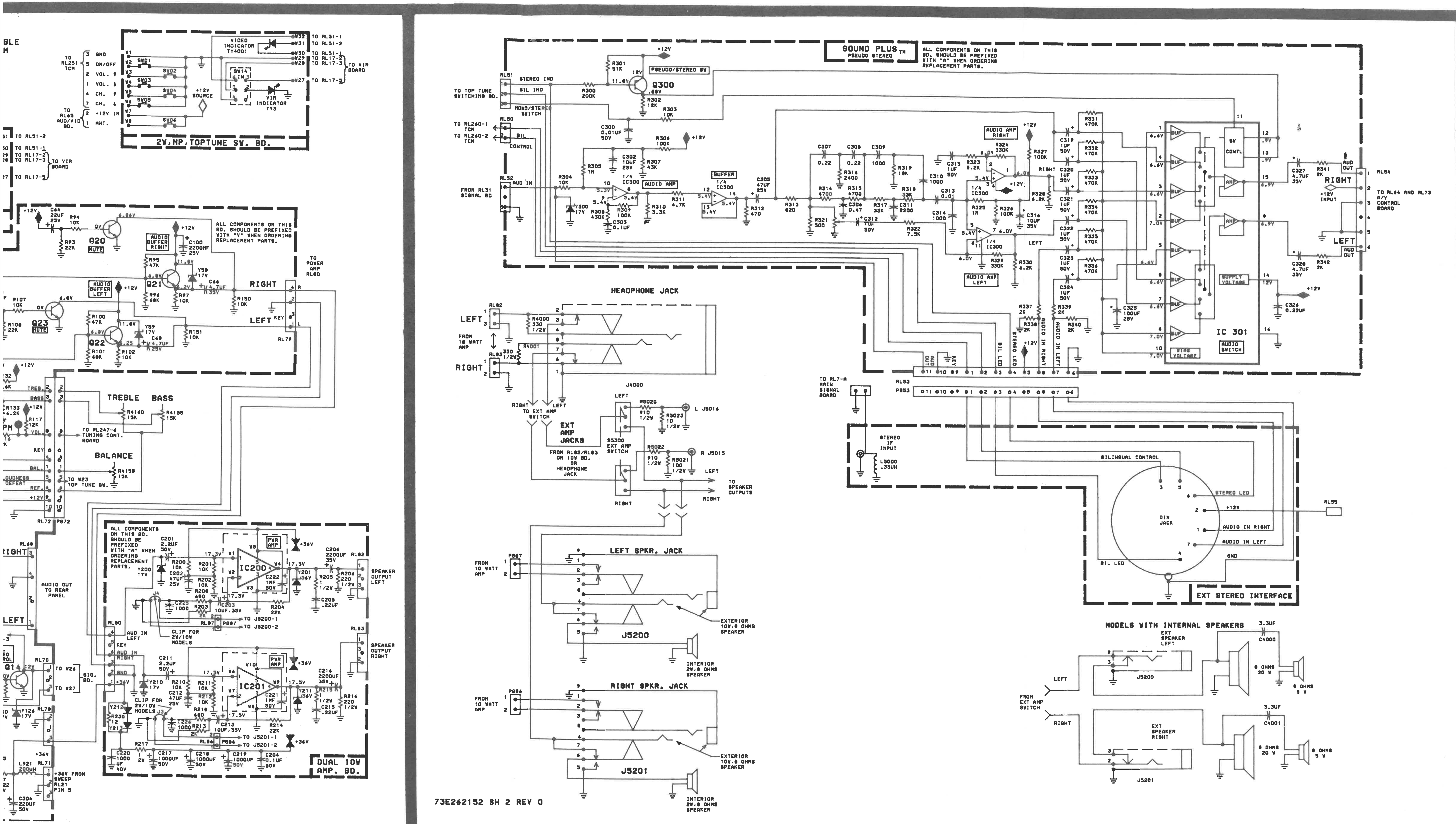
PM CHASSIS — AUDIO/VIDEO CONTROL BD., DUAL (2W, 5W, 10W) AMP. BD., RF





...NTROL BD., DUAL (2W, 5W, 10W) AMP. BD., RF RELAY SW. ASM., & TOP TUNE SW. BD. SCHEMATIC DIAGRAMS

PM CHASSIS — SOUND PLUS ™ (PSEUDO STEREO) BD., & EXT. STEREO INTERFACE SCHEMATIC DI...



...M., & TOP TUNE SW. BD. SCHEMATIC DIAGRAMS

PM CHASSIS – SOUND PLUS ™ (PSEUDO STEREO) BD., & EXT. STEREO INTERFACE SCHEMATIC DIAGRAMS PLUS SPEAKER CONNECTIONS

19" & 25" PM–C CHASSIS

SUPPLEMENT

MINI-MANUAL

SERVICE INFORMATION
FOR TECHNICIAN
USE ONLY

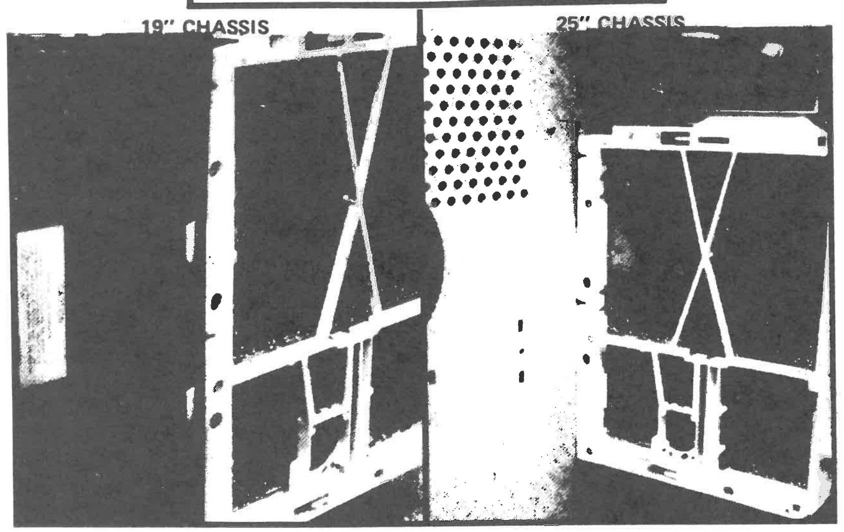
ACCESSIBLE FROM INSIDE
TV SET ONLY

73E261919–3

Includes: PM Chassis Troubleshooting Flow Charts, Chassis Service Positions, (Partial) Replacement Parts List, VIR, Comb-Filter, Audio/Video Switching, 10W/5W/2W Audio, and "Sound Plus" Audio Schematics.

ORANGE LETTERS IDENTIFY CHASSIS LAYOUT GRID FOR COMPONENT LOCATION (SEE CHASSIS LAYOUT—Main Mini-Manual).

PM CHASSIS SERVICE POSITIONS



PM CHASSIS TROUBLESHOOTING FLOW CHARTS

NO RASTER NO SOUND

DOES ON-OFF RELAY CLICK ONCE? [G]

- NO → CHECK FUSES F901-F902 ON POWER SUPPLY BOARD. [Y] [N]
  - F901-F902 OK [Y] [N] → APPLY POWER [C] → MEASURE VOLTAGE AT RL22, PIN 3. IS IT AT LEAST 18 VOLTS (RL22 IS ON SWEEP MOD).
    - VOLTAGE LOW OR MISSING → REMOVE POWER → CHECK FOR OPEN OR SHORTED Y931, Y932, Y930, R920, R930, T901. [G] [N] → REPLACE DEFECTIVE COMPONENT. CHECK POWER SUPPLY BEFORE REPLACING FUSE.
    - VOLTAGE NORMAL AT RL22. → REMOVE PG23. JUMPER PIN 1 OF RL23 TO TRANSFORMER T901 AT MOV 901 (BYPASSES RELAY). [G] → DOES HIGH VOLTAGE COME UP?
      - YES → CHECK ON/OFF RELAY RY900 AND TUNER CONTROL [G]
      - NO [N] → CHECK 128 VOLTS, 36 VOLTS, Y933, Q701, Q1901, T701, AND ASSOCIATED COMPONENTS. [C] [F] [H] [N]
  - F901 or F902 BLOWN [Y] [N] → WITH POWER REMOVED, CHECK Q901 IN CIRCUIT.
    - Q901 OPEN COLLECTOR TO BASE? [X] — BEFORE REPLACING Q901, CHECK R901, R902, Y902, Y901, Y903, Y904, C907. [N]
    - Q901 COLLECTOR SHORTED TO GROUND? [N] [H] — BEFORE REPLACING Q901. CHECK Y914, Y913, Y930, Y931, Y932, AND C907. IF C907 OPENS, F902 WILL OPEN AND Q901 WILL SHORT.
    - Q901 CHECKS OK → MEASURE RESISTANCE OF TP904 TO GROUND. IF RESISTANCE AT TP904 IS 0 to 20K, SUSPECT IC901. IF RESISTANCE AT TP904 IS GREATER THAN 20K AND CHANGING SUSPECT R906, Y905.
- YES → QUICK CHECK: IF RELAY CLICKS RAPIDLY: REMOVE PG20 TO HORIZ HEAT SINK, PRESS ON/OFF AGAIN, DOES RELAY CLICK ONCE? CHECK COMPONENTS ON HEAT SINK BOARD. [H] [P] [Y]
- YES → MEASURE VOLTAGE ON SWEEP MODULE AT RL21, PIN 8. IS IT AT LEAST +120 VOLTS? MEASURE VOLTAGE AT RL21, PIN 5. IS IT AT LEAST +30 VOLTS? [C]
  - VOLTAGE LOW OR ...
    - VOLTAGE LOW CH... Y931, Y932, T901. [G] [G] [G]
    - VOLTAGE MISSING ... PIN 1 TO TRANSF... MOV901. (BYPA... MEASURE RL21, ... LEAST +120 VO... RELAY RY900. [G] [G]
  - VOLTAGE NORMAL AT RL21, PINS 5 AND 8 → MEASURE VOLTAGE AT THE COLLECTOR OF HORIZ DRIVER Q701. [C]
    - NO Q701 COLLECTOR VOLTAGE OR LOWER THAN 20 VOLTS. CHECK Y633 (ON SIGNAL BOARD), Q701, OR WIRING TO Q701. [F]
    - IF Q701 COLLECTOR VOLTAGE IS AT LEAST 30 VOLTS? MEASURE BASE VOLTAGE OF Q701. IS IT .3 VOLT? [C]
      - YES → CHECK DRIVER TRANSFORMER T702, Q1901 FOR OPEN AND FLYBACK TRANSFORMER T701.
      - NO [M] → NO Q701 BASE VO... VOLTAGE IS HIGHE... CHECK IC501, R531 ... COMPONENTS. [C]

NO VERTICAL SWEEP/ABNORMAL VERTICAL SWEEP

CHECK THE ADJUSTMENT OF THE VERTICAL HEIGHT AND HOLD CONTROLS, IF NO SUCCESS: [N] [X] → MEASURE THE VOLTAGE ON THE CATHODE OF Y936. IS THE VOLTAGE 56 VOLTS ±10%.

- YES → UNSOLDER ONE END OF Y607 AND Y609. CHECK THEM FOR A FRONT TO BACK RESISTANCE OF AT LEAST 10:1. BEFORE RECONNECTING Y607 AND Y609 CHECK Q601, Q603, AND Y605 FOR A FRONT TO BACK RESISTANCE OF AT LEAST 10:1. [G] [G] [F]
- NO → CHECK Y936, R933 AND THE HVT WINDING BETWEEN PINS 3 AND 6. [G] [G] [N]

NO SYNC/ABNORMAL SYNC

DOES THE RECEIVER HAVE:

NO HORIZONTAL SYNC

CHECK THE ADJUSTMENT OF THE HORIZONTAL HOLD CONTROL, R505. [V] → MEASURE THE VOLTAGE AT THE CATHODE OF Y990. IS IT [V]

- +5VDC? → CHECK FOR DEFECTIVE SOLDER CONNECTIONS, COMPONENT LEAD DRESS, AND SOLDER SHORTS AROUND PINS 11, 12, AND 13 OF IC501 [M]
- 0VDC? → [X] CHECK Y992. FRONT TO BACK RATIO SHOULD BE AT LEAST 10:1 IN CIRCUIT. IF Y992 IS GOOD REPLACE THE HIGH VOLTAGE SHUTDOWN MODULE [V]

NO VERTICAL SYNC

CHECK THE ADJUSTMENT OF THE VERTICAL HOLD CONTROL, R629. [X] → CHECK FOR SOLDER CONNECTIONS COMPONENT LEAD DRESS, AND SOLDER SHORTS AROUND PINS 7 AND 8 OF IC501. [M]

NO VERTICAL OR ...

[X] CHECK THE ADJ... VERTICAL AND H... CONTROL IS NO ...

[B] CHECK Q110, Q1... TO BACK RESIST... AT LEAST 10:1 IN ...

NO VIDEO/ABNORMAL VIDEO

DOES THE SET HAVE COLOR BUT NOT THE BLACK AND WHITE PART OF THE PICTURE?

- YES → [E] CHECK FOR OPEN DELAY LINE L220. CHECK Q204, FRONT TO BACK RESISTANCE SHOULD BE AT LEAST 10:1 IN CIRCUIT. [L]
- NO → [E] UNPLUG PG7 FROM THE SIGNAL CIRCUIT BOARD. QUICKLY "MAKE AND BREAK" CONTACT BETWEEN PG7 AND ITS CONNECTING PINS ON THE BOARD. DOES THIS CAUSE THE RASTER TO CHANGE OR FLASH?
  - YES → THE PROBLEM IS IN THE ELECTRONIC TUNING SECTION. REFER TO SEPARATE MINI-MANUAL ON THE ELECTRONIC TUNING SYSTEM USED IN THE MODEL RECEIVER YOU ARE TROUBLESHOOTING.
  - NO → [A] CHECK Q105 FRONT TO BACK RESISTANCE SHOULD BE AT LEAST 10:1 IN CIRCUIT.

NO COLOR/ABNORMAL COLOR

DOES THE SET HAVE A VIR MODULE?

- NO → [T] CHECK Q300, FRONT TO BACK RESISTANCE SHOULD BE AT LEAST 10:1 IN CIRCUIT.
- YES → TURN THE VIR SWITCH OFF. CAN NORMAL COLOR BE OBTAINED?
  - YES → TURN THE VIR SWITCH BACK ON. CHECK THE ADJUSTMENT OF THE PREFERENCE CONTROLS (VIR ONLY). IF NO SUCCESS REPLACE THE VIR MODULE.
  - NO → [L] REMOVE THE VIR MODULE, USE CLIP LEADS TO RESTORE JUMPER WIRE CONNECTIONS J1, AND J2, * CAN NORMAL COLOR BE OBTAINED?
    - YES → REPLACE THE VIR MODULE.
    - NO → (to CHECK Q300)

[L]

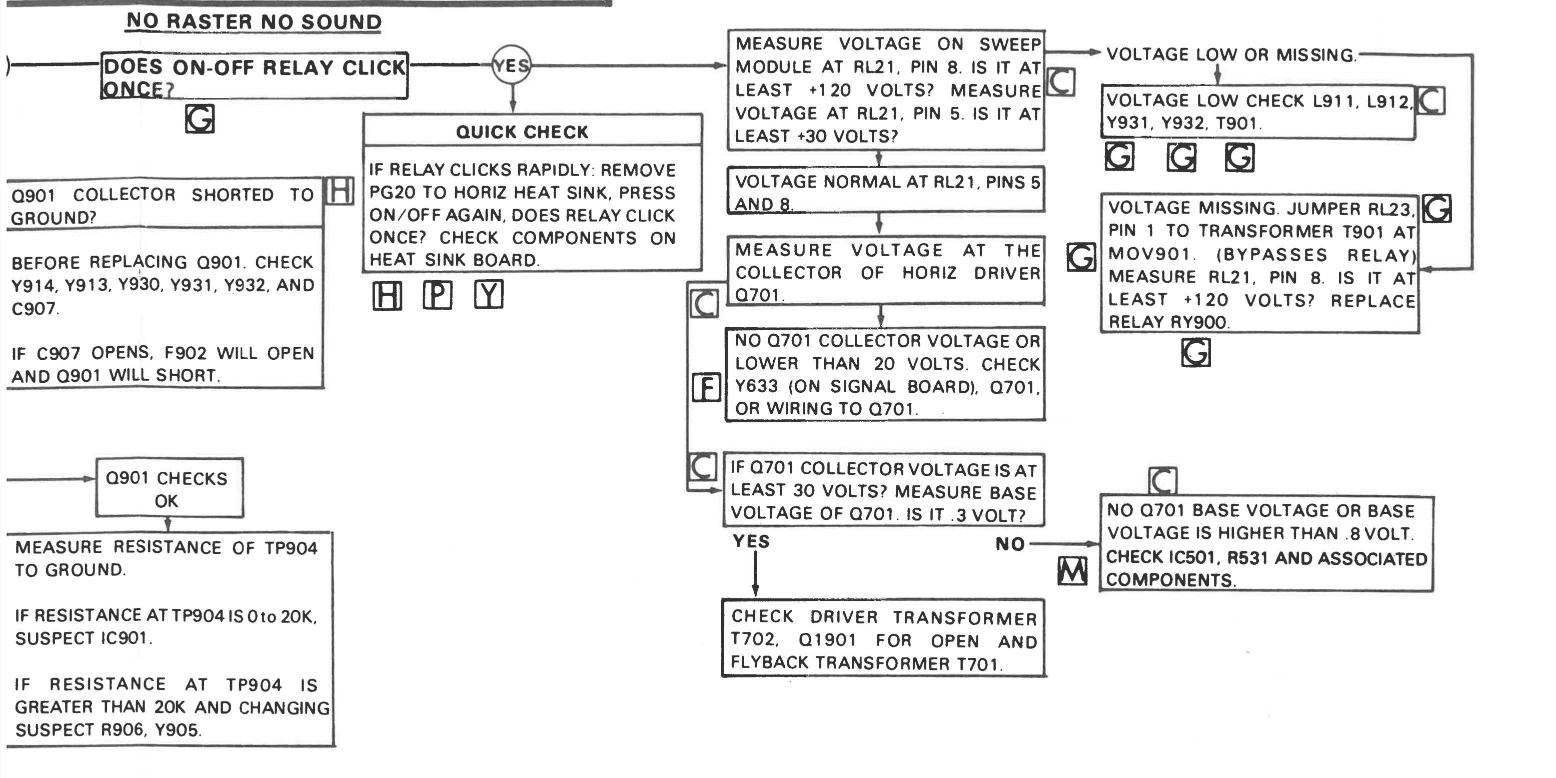
* J1 AND J2 ARE CLIPPED FOR VIR.

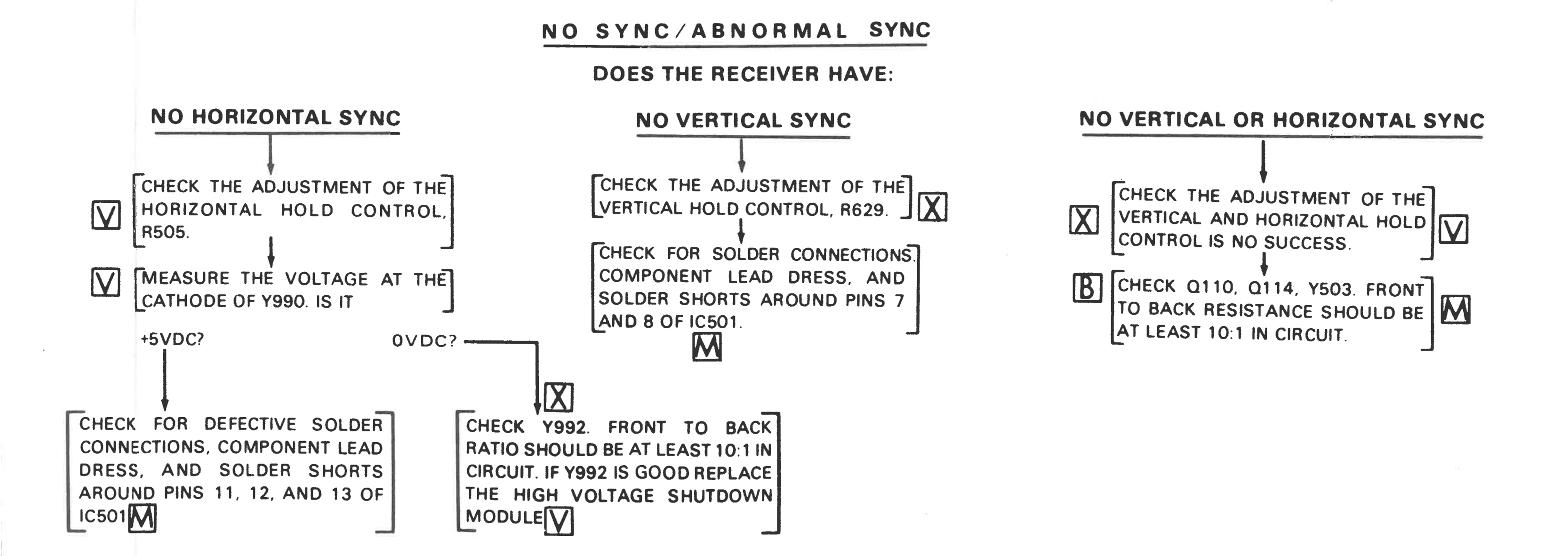
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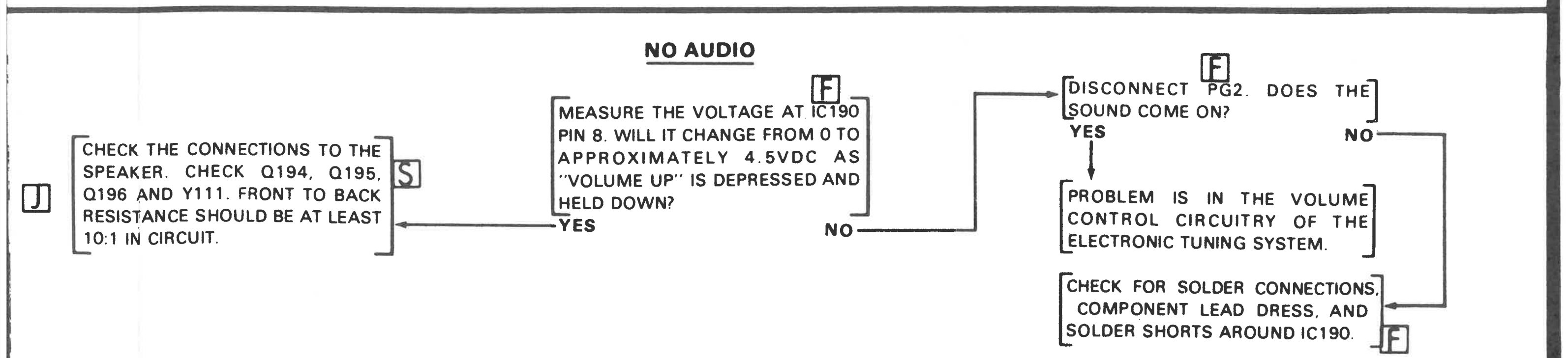
[F] MEASURE THE VOLTAGE AT IC190 PIN 8. WILL IT CHANGE FROM 0 TO APPROXIMATELY 4.5VDC AS "VOLUME UP" IS DEPRESSED AND HELD DOWN?

- YES → [J] CHECK THE CONNECTIONS TO THE SPEAKER. CHECK Q194, Q195, Q196 AND Y111. FRONT TO BACK RESISTANCE SHOULD BE AT LEAST 10:1 IN CIRCUIT. [S]
- NO → [F] DISCONNECT PG2. SOUND COME ON?
  - YES → PROBLEM IS IN T... CONTROL CIRCUIT ... ELECTRONIC TUNING ...
  - CHECK FOR SOLDER ... COMPONENT LEAD ... SOLDER SHORTS ARO...

IASSIS TROUBLESHOOTING FLOW CHARTS







19" AND 25" PM–C CHASSIS PARTS LIS

SIGNAL CIRCUIT BOARD

(Continued from Main Chassis Mini-Manual 73E261918–3)

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y187	EP16X58	Zener
Y189	EP16X58	Zener
Y190	EP16X58	Zener
Y202	ES16X27	Silicon
Y204	ES16X27	Silicon
Y206	ES16X27	Silicon
Y208	EP16X58	Zener
Y214	ES16X27	Silicon
Y218	ES16X27	Silicon
Y299	EP16X58	Zener
Y300	EP16X147	Silicon
Y350	EP16X58	Zener
Y352	EP16X58	Zener
Y354	EP16X58	Zener
Y503	ES16X27	Silicon
Y504	EP16X19	Zener, 5.6V
Y603	EP57X4	Rectifier
Y605	EP57X4	Rectifier
Y607	EP57X4	Rectifier
Y609	EP57X4	Rectifier
Y933	EP57X4	Rectifier
Y990	ES16X27	Silicon
Y991	EP57X5	Rectifier
Y992	EP57X5	Rectifier

2 WATT POWER SUPPLY CIRCUIT BOARD

EP93X514

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
* C901	EP25X147	.luf, 10%, 125V, Polyester

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
* R901	EP14X357	1 ohm, 10%, 5W, Wirewound
* R902	EP14X357	1 ohm, 10%, 5W, Wirewound
* R904	EP14X330	THERMISTOR
* R906	EP14X323	6.8K ohm, 5%, 3W, Flame Proof
* R909	EP14X355	200 ohm, 1%, 1/4W, Metal Film
* R910	EP14X408	1.1K ohm, 1%, 1/4W, Metal Film
* R911	EP14X405	17.4K ohm, 5%, 1/4W, Metal Film
* R913	EP14X406	390K ohm, 5%, 1/4W, Carbon
* R917	EP14X358	7.5 ohm, 5%, 5W, Wirewound

INTEGRATED CIRCUIT

REF. NO.	PART NO.	DESCRIPTION
* IC901	EP84X233	SWITCHING POWER SUPPLY REGULATOR

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q901	EP15X223	SWITCHING-NPN, Silicon
Q902	EP15X224	TRIAC BI DIRECTIONAL TRIODE THYRISTOR

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y901	EP57X4	Rectifier
Y902	EP57X4	Rectifier
Y903	EP57X4	Rectifier
Y904	EP57X4	Rectifier
Y905	EP57X4	Rectifier
Y907	EP57X5	Rectifier
Y908	EU16X11	Silicon
Y909	EU16X11	Silicon
Y910	EP57X5	Rectifier
Y912	EP57X5	Rectifier
Y915	EP16X24	Silicon
Y937	EP57X5	Rectifier

COILS

REF. NO.	PART NO.	DESCRIPTION
* L901	EP36X464	CHOKE-Line Filter
* L902	EP36X465	CHOKE-Filament, 2.2uh

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
*	EP66X19	CORD-AC Power, Polarized
* F901	EP10X19	FUSE-4amp, 250V, Fast Acting, Snap-In
* F902	EP10X21	FUSE-2.5amp, 250V, Fast Acting, Snap-In

10 WATT POWER SUPPLY CIRCUIT BOARD

EP93X515

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
* C901	EP25X147	.luf, 10%, 125V, Polyester

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
* R901	EP14X357	1 ohm, 10%, 5W, Wirewound
* R902	EP14X357	1 ohm, 10%, 5W, Wirewound
* R904	EP14X330	THERMISTOR
* R906	EP14X323	6.8K ohm, 5%, 3W, Flame Proof
* R909	EP14X355	200 ohm, 1%, 1/4W, Metal Film
* R910	EP14X408	1.1K ohm, 1%, 1/4W, Metal Film
* R911	EP14X405	17.4K ohm, 1%, 1/4W, Metal Oxide
* R913	EP14X406	390K ohm, 5%, 1/4W, Carbon
* R917	EP14X358	7.5 ohm, 5%, 5W, Wirewound

INTEGRATED CIRCUIT

REF. NO.	PART NO.	DESCRIPTION
* IC901	EP84X233	SWITCHING POWER SUPPLY REGULATOR

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q901	EP15X223	SWITCHING-NPN, Silicon
Q902	EP15X224	TRIAC BI DIRECTIONAL TRIODE THYRISTOR

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y901	EP57X4	Rectifier
Y902	EP57X4	Rectifier
Y903	EP57X4	Rectifier
Y904	EP57X4	Rectifier
Y905	EP57X4	Rectifier
Y907	EP57X5	Rectifier
Y908	EU16X11	Silicon
Y909	EU16X11	Silicon
Y910	EP57X5	Rectifier
Y912	EP57X5	Rectifier
Y915	EP16X24	Silicon
Y937	EP57X5	Rectifier

COILS

REF. NO.	PART NO.	DESCRIPTION
* L901	EP36X464	CHOKE-Line Filter
* L902	EP36X465	CHOKE-Filament, 2.2uh

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
*	EP66X19	CORD-AC Power, Polarized
* F901	EP10X19	FUSE-4amp, 250V, Fast Acting, Snap-In
* F902	EP10X4	FUSE-3amp, 250V, Fast Acting, Snap-In

2 WATT AUDIO CIRCUIT BOARD

EP93X513

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
* R190	EP14X342	39 ohm, 10%, 3W, Flame Proof

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q194	EP15X88	DRIVER-NPN, Silicon
Q195	EP15X222	POWER OUTPUT-PNP, Sil
Q196	EP15X221	POWER OUTPUT-NPN, Sil

DIODE

REF. NO.	PART NO.	DESCRIPTION
Y111	ES16X27	Silicon

AUDIO/VIDEO CIRCUIT BOARD

EP93X522

INTEGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
VIC1	EP84X143	AUDIO SWITCHING
VIC2	EP84X229	AUDIO CONTROL
VIC3	EP84X228	VIDEO SWITCH
VIC4	EP84X217	3 TERMINAL VOL REG.
VIC200	EP84X240	TRIGGER CMOS
VIC201	EP84X241	
VIC202	EP84X242	DECADE COUTR

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
VQ14	EP15X86	EXT. VIDEO CONTROL-NP
VQ15	EP15X86	EXT. AMP-NPN, Silicon
VQ16	EP15X86	EXT. AMP-NPN, Silicon
VQ20	EP15X86	MUTE-NPN, Silicon
VQ21	EP15X86	AUDIO BUFFER RIGHT-NP
VQ22	EP15X86	AUDIO BUFFER LEFT-NPN
VQ23	EP15X86	MUTE-NPN, Silicon
VQ25	EP15X86	LOUDNESS-NPN, Silicon
VQ26	EP15X86	VOL. CONTROL-NPN, Sil
VQ200	EP15X86	SILICON, NPN
VQ201	EP15X86	SILICON, NPN
VQ202	EP15X48	SILICON, PNP
VQ203	EP15X57	SILICON, PNP
VQ204	EP15X109	SILICON, NPN
VQ205	EP15X109	SILICON, NPN

DIODES

REF. NO.	PART NO.	DESCRIPTION
VY1 thru VY34	ES16X27	Silicon
VY36	EP57X4	Rectifier
VY37	EP57X4	Rectifier
VY52	EP16X58	Zener
VY53	EP16X58	Zener
VY54	EP16X19	Zener, 1W, 5.6V
VY58	EP16X58	Zener, 17V
VY59	EP16X58	Zener, 17V
VY60	EP16X58	Zener, 17V
VY100	ES16X27	Silicon
VY101	ES16X27	Silicon
VY102	ES16X27	Silicon
VY103	EP16X31	Zener, 13V
VY104 thru VY116	ES16X27	Silicon
VY117	EP57X4	Rectifier
VY118	EP57X4	Rectifier
VY125	EP57X4	Rectifier
VY126	EP16X58	Zener
VY128	ES16X27	Silicon
VY129	EP57X4	Rectifier
VY130	EP57X4	Rectifier

DUAL 10 WATT (5 WATT) AUDIO CIRCUIT BO

EP93X512

INTEGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
AIC200	EP84X109	AUDIO POWER AMP
AIC201	EP84X109	AUDIO POWER AMP

19" AND 25" PM–C CHASSIS PARTS LIST (CONTINUED)

SIGNAL CIRCUIT BOARD

(Continued from Main Chassis Mini-Manual 73E261918–3)

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y187	EP16X58	Zener
Y189	EP16X58	Zener
Y190	EP16X58	Zener
Y202	ES16X27	Silicon
Y204	ES16X27	Silicon
Y206	ES16X27	Silicon
Y208	EP16X58	Zener
Y214	ES16X27	Silicon
Y218	ES16X27	Silicon
Y299	EP16X58	Zener
Y300	EP16X147	Silicon
Y350	EP16X58	Zener
Y352	EP16X58	Zener
Y354	EP16X58	Zener
Y503	ES16X27	Silicon
Y504	EP16X19	Zener, 5.6V
Y603	EP57X4	Rectifier
Y605	EP57X4	Rectifier
Y607	EP57X4	Rectifier
Y609	EP57X4	Rectifier
Y933	EP57X4	Rectifier
Y990	ES16X27	Silicon
Y991	EP57X5	Rectifier
Y992	EP57X5	Rectifier

2 WATT POWER SUPPLY CIRCUIT BOARD

EP93X514

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
* C901	EP25X147	.luf, 10%, 125V, Polyester

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
* R901	EP14X357	1 ohm, 10%, 5W, Wirewound
* R902	EP14X357	1 ohm, 10%, 5W, Wirewound
* R904	EP14X330	THERMISTOR
* R906	EP14X323	6.8K ohm, 5%, 3W, Flame Proof
* R909	EP14X355	200 ohm, 1%, 1/4W, Metal Film
* R910	EP14X408	1.1K ohm, 1%, 1/4W, Metal Film
* R911	EP14X405	17.4K ohm, 5%, 1/4W, Metal Film
* R913	EP14X406	390K ohm, 5%, 1/4W, Carbon
* R917	EP14X358	7.5 ohm, 5%, 5W, Wirewound

INTEGRATED CIRCUIT

REF. NO.	PART NO.	DESCRIPTION
* IC901	EP84X233	SWITCHING POWER SUPPLY REGULATOR

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q901	EP15X223	SWITCHING-NPN, Silicon
Q902	EP15X224	TRIAC BI DIRECTIONAL TRIODE THYRISTOR

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y901	EP57X4	Rectifier
Y902	EP57X4	Rectifier
Y903	EP57X4	Rectifier
Y904	EP57X4	Rectifier
Y905	EP57X4	Rectifier
Y907	EP57X5	Rectifier
Y908	EU16X11	Silicon
Y909	EU16X11	Silicon
Y910	EP57X5	Rectifier
Y912	EP57X5	Rectifier
Y915	EP16X24	Silicon
Y937	EP57X5	Rectifier

COILS

REF. NO.	PART NO.	DESCRIPTION
* L901	EP36X464	CHOKE-Line Filter
* L902	EP36X465	CHOKE-Filament, 2.2uh

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
*	EP66X19	CORD-AC Power, Polarized
* F901	EP10X19	FUSE-4amp, 250V, Fast Acting, Snap-In
* F902	EP10X21	FUSE-2.5amp, 250V, Fast Acting, Snap-In

10 WATT POWER SUPPLY CIRCUIT BOARD

EP93X515

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
* C901	EP25X147	.luf, 10%, 125V, Polyester

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
* R901	EP14X357	1 ohm, 10%, 5W, Wirewound
* R902	EP14X357	1 ohm, 10%, 5W, Wirewound
* R904	EP14X330	THERMISTOR
* R906	EP14X323	6.8K ohm, 5%, 3W, Flame Proof
* R909	EP14X355	200 ohm, 1%, 1/4W, Metal Film
* R910	EP14X408	1.1K ohm, 1%, 1/4W, Metal Film
* R911	EP14X405	17.4K ohm, 1%, 1/4W, Metal Oxide
* R913	EP14X406	390K ohm, 5%, 1/4W, Carbon
* R917	EP14X358	7.5 ohm, 5%, 5W, Wirewound

INTEGRATED CIRCUIT

REF. NO.	PART NO.	DESCRIPTION
* IC901	EP84X233	SWITCHING POWER SUPPLY REGULATOR

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q901	EP15X223	SWITCHING-NPN, Silicon
Q902	EP15X224	TRIAC BI DIRECTIONAL TRIODE THYRISTOR

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y901	EP57X4	Rectifier
Y902	EP57X4	Rectifier
Y903	EP57X4	Rectifier
Y904	EP57X4	Rectifier
Y905	EP57X4	Rectifier
Y907	EP57X5	Rectifier
Y908	EU16X11	Silicon
Y909	EU16X11	Silicon
Y910	EP57X5	Rectifier
Y912	EP57X5	Rectifier
Y915	EP16X24	Silicon
Y937	EP57X5	Rectifier

COILS

REF. NO.	PART NO.	DESCRIPTION
* L901	EP36X464	CHOKE-Line Filter
* L902	EP36X465	CHOKE-Filament, 2.2uh

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
*	EP66X19	CORD-AC Power, Polarized
* F901	EP10X19	FUSE-4amp, 250V, Fast Acting, Snap-In
* F902	EP10X4	FUSE-3amp, 250V, Fast Acting, Snap-In

2 WATT AUDIO CIRCUIT BOARD

EP93X513

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
* R190	EP14X342	39 ohm, 10%, 3W, Flame Proof

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q194	EP15X88	DRIVER-NPN, Silicon
Q195	EP15X222	POWER OUTPUT-PNP, Silicon
Q196	EP15X221	POWER OUTPUT-NPN, Silicon

DIODE

REF. NO.	PART NO.	DESCRIPTION
Y111	ES16X27	Silicon

AUDIO/VIDEO CIRCUIT BOARD

EP93X522

INTEGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
VIC1	EP84X143	AUDIO SWITCHING
VIC2	EP84X229	AUDIO CONTROL
VIC3	EP84X228	VIDEO SWITCH
VIC4	EP84X217	3 TERMINAL VOL REG.
VIC200	EP84X240	TRIGGER CMOS
VIC201	EP84X241	
VIC202	EP84X242	DECADE COUTR

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
VQ14	EP15X86	EXT. VIDEO CONTROL-NPN, Silicon
VQ15	EP15X86	EXT. AMP-NPN, Silicon
VQ16	EP15X86	EXT. AMP-NPN, Silicon
VQ20	EP15X86	MUTE-NPN, Silicon
VQ21	EP15X86	AUDIO BUFFER RIGHT-NPN, Silicon
VQ22	EP15X86	AUDIO BUFFER LEFT-NPN, Silicon
VQ23	EP15X86	MUTE-NPN, Silicon
VQ25	EP15X86	LOUDNESS-NPN, Silicon
VQ26	EP15X86	VOL. CONTROL-NPN, Silicon
VQ200	EP15X86	SILICON, NPN
VQ201	EP15X86	SILICON, NPN
VQ202	EP15X48	SILICON, PNP
VQ203	EP15X57	SILICON, PNP
VQ204	EP15X109	SILICON, NPN
VQ205	EP15X109	SILICON, NPN

DIODES

REF. NO.	PART NO.	DESCRIPTION
VY1 thru VY34	ES16X27	Silicon
VY36	EP57X4	Rectifier
VY37	EP57X4	Rectifier
VY52	EP16X58	Zener
VY53	EP16X58	Zener
VY54	EP16X19	Zener, 1W, 5.6V
VY58	EP16X58	Zener, 17V
VY59	EP16X58	Zener, 17V
VY60	EP16X58	Zener, 17V
VY100	ES16X27	Silicon
VY101	ES16X27	Silicon
VY102	ES16X27	Silicon
VY103	EP16X31	Zener, 13V
VY104 thru VY116	ES16X27	Silicon
VY117	EP57X4	Rectifier
VY118	EP57X4	Rectifier
VY125	EP57X4	Rectifier
VY126	EP16X58	Zener
VY128	ES16X27	Silicon
VY129	EP57X4	Rectifier
VY130	EP57X4	Rectifier

DUAL 10 WATT (5 WATT) AUDIO CIRCUIT BOARD

EP93X512

INTEGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
AIC200	EP84X109	AUDIO POWER AMP
AIC201	EP84X109	AUDIO POWER AMP

DIODES

REF. NO.	PART NO.	DESCRIPTION
AY200	EP16X58	Zener
AY201	EP16X148	Zener
AY210	EP16X58	Zener
AY211	EP16X148	Zener
AY212	EP57X4	Rectifier
AY213	EP57X4	Rectifier

SOUND PLUS CIRCUIT BOARD

EP93X438

INTEGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
AIC300	EP84X119	DL & QD DP AMP
AIC301	EP84X143	AUDIO SWITCH

TRANSISTOR

REF. NO.	PART NO.	DESCRIPTION
AQ300	ES15X90	AUDIO STEREO SWITCH-PNP, Silicon

DIODE

REF. NO.	PART NO.	DESCRIPTION
AY300	EP16X58	Zener

COMB FILTER CIRCUIT BOARD

EP93X435

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q610	EP15X88	VIDEO BUFFER-NPN, Silicon
Q620	EP15X88	INVERSE VIDEO AMP.-NPN, Silicon
Q630	EP15X88	LUMA BUFFER-NPN, Silicon
Q640	EP15X88	CHROMA BUFFER-NPN, Silicon
Q650	EP15X88	SWITCH-NPN, Silicon
Q660	EP15X88	SWITCH-NPN, Silicon
Q670	EP15X88	BUFFER-NPN, Silicon
Q680	EP15X88	DELAY-NPN, Silicon
Q690	EP15X88	PULSE GEN.-NPN, Silicon

DIODE

REF. NO.	PART NO.	DESCRIPTION
Y601	ES16X27	Silicon

VIR CIRCUIT BOARD ASM

EP93X462

INTEGRATED CIRCUIT

REF. NO.	PART NO.	DESCRIPTION
ICV10	EP84X60	MONO

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
QV10	EP15X88	NPN, Silicon
QV11	EP15X88	NPN, Silicon
QV12	EP15X88	NPN, Silicon
QV13	EP15X88	NPN, Silicon
QV14	EP15X88	NPN, Silicon
QV15	EP15X48	PNP, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
YV10	EU16X11	Silicon
YV11	EU16X11	Silicon
YV12	EU16X11	Silicon
YV13	EU16X11	Silicon
YV14	EU16X11	Silicon
YV15	EP16X19	Zener, 1W

TOP TUNING CIRCUIT BOARD (10W/MP MODELS)

EP93X516 (19")

EP93X517 (25")

DIODES

REF. NO.	PART NO.	DESCRIPTION
TY4001	EP41X14	STEREO INDICATOR-Red
TY4002	EP41X14	BILINGUAL-Red
TY4003	EP41X14	VIR-Red
TY4004	ES16X27	Silicon
TY4005	EP41X14	VIR-Red

TOP TUNING CIRCUIT BOARD

EP93X533 (2W/KMPS MODELS)

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y4001	EP41X14	L. E. D.-TV/Video Indicator, Red

TOP TUNING CIRCUIT BOARD

EP93X552 (2W/MP MODELS)

MODE SWITCH CIRCUIT BOARD

EP93X525

INTERGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
AIC1	EP84X241	DAUL MONSTABLE MULTIVIBRATOR
AIC2	EP84X240	HEX SCHMITT TRIGGER
AIC3	EP84X249	DAUL D FLIP FLOP
AIC4	EP84X30	QUAD BILATRL SWITCH

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
AQ01	EP15X86	NPN, Silicon
AQ02	EP15X86	NPN, Silicon
AQ03	EP15X86	NPN, Silicon
AQ04	EP15X86	NPN, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
AY01 thru AY04	EP57X4	Rectifier, Silicon
AY05	ES16X27	Silicon
AY06	ES16X27	Silicon
AY07	EP57X4	Rectifier, Silicon
AY08	EP57X4	Rectifier, Silicon
AY09	ES16X27	Silicon
AY10	ES16X27	Silicon
AY11 thru AY16	EP57X4	Rectifier, Silicon
AY17	EP16X58	Zener

RF SWITCH ASSEMBLY

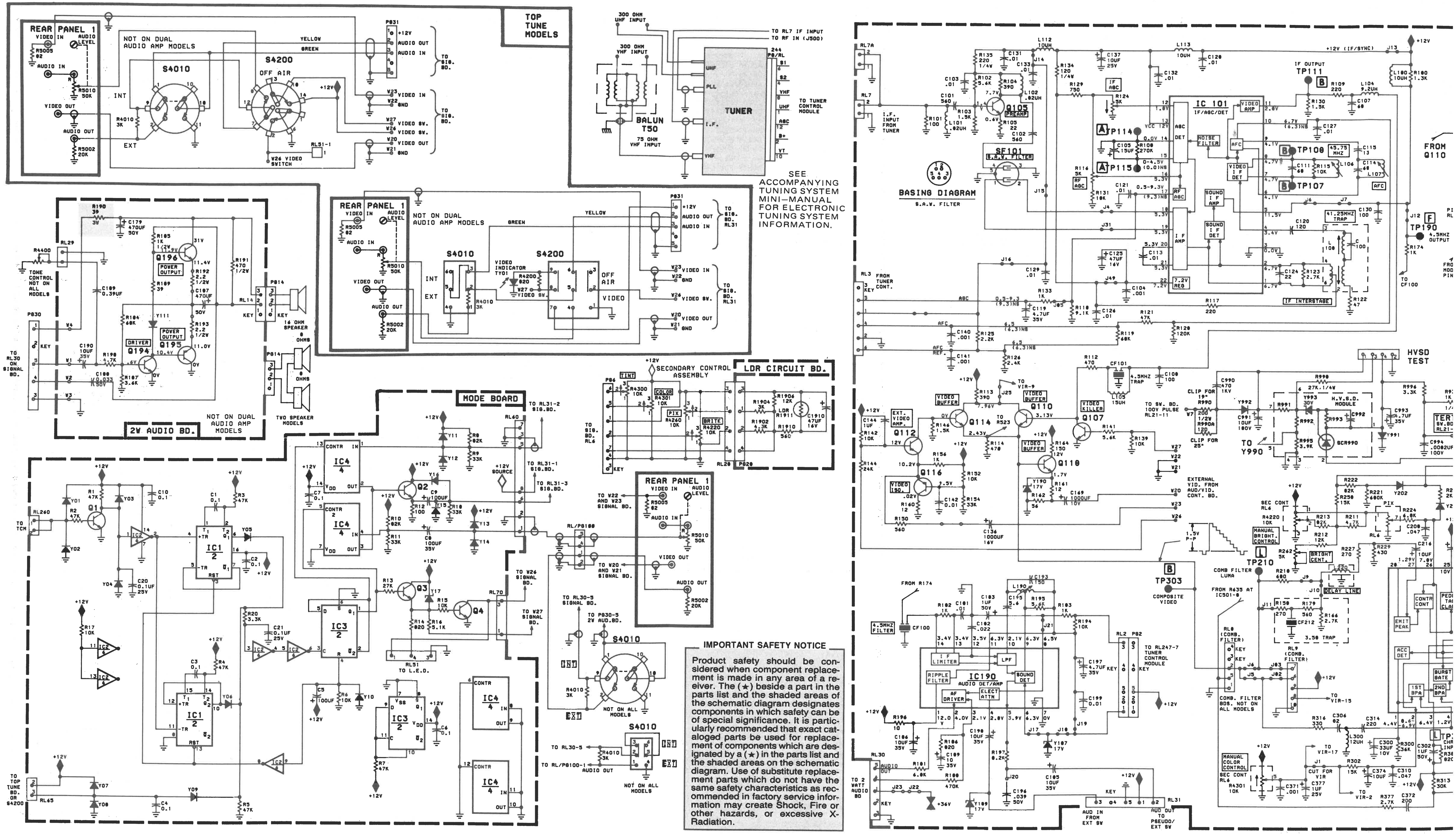
EP39X215

RELAY CIRCUIT BOARD

EP93X540

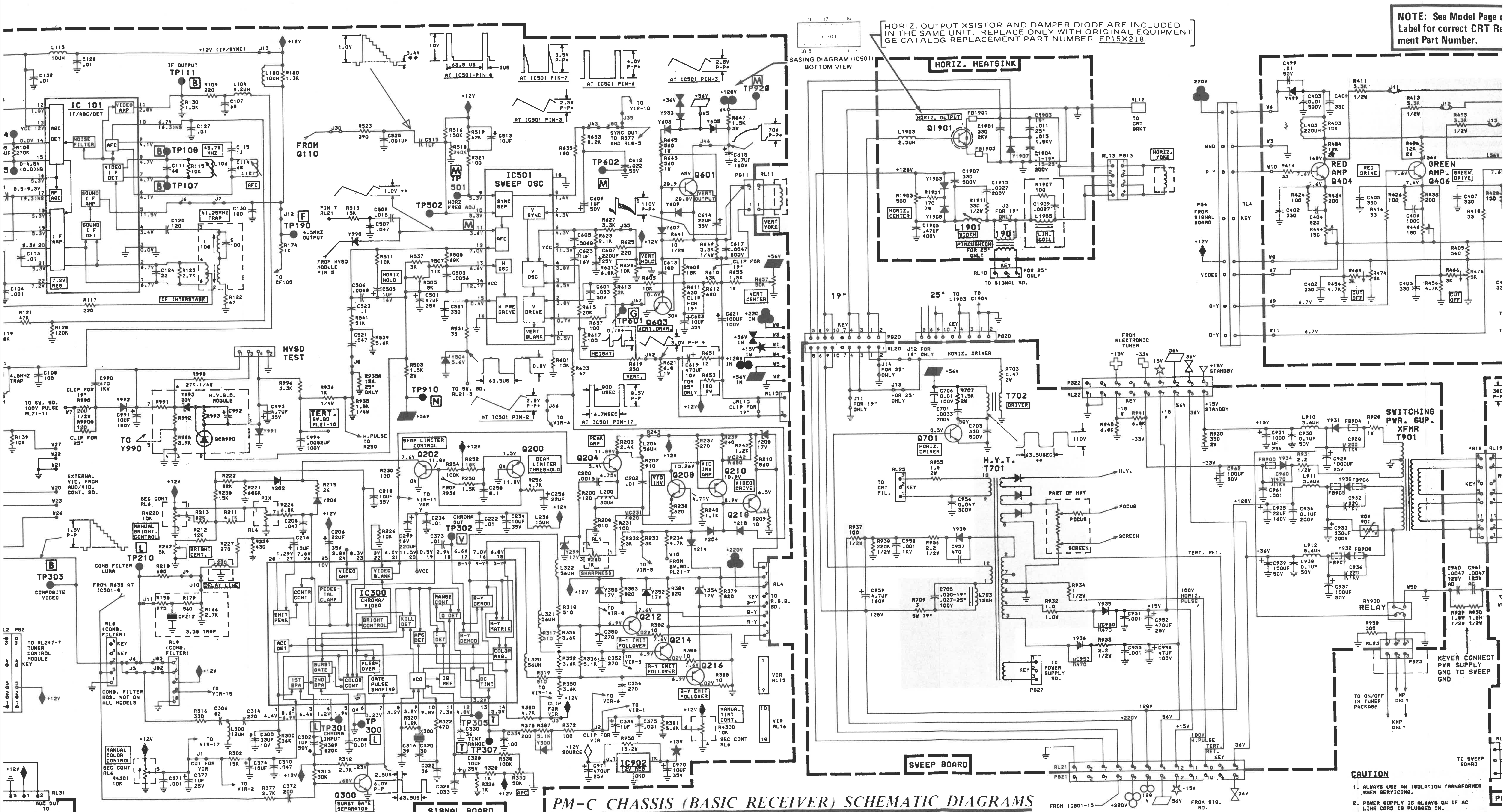
REF. NO.	PART NO.	DESCRIPTION
RY1	EP41X149	RELAY
RY2	EP41X149	RELAY
Y01	EP57X4	DIODE-Rectifier

73E261919–3



IMPORTANT SAFETY NOTICE

Product safety should be considered when component replacement is made in any area of a receiver. The (★) beside a part in the parts list and the shaded areas of the schematic diagram designates components in which safety can be of special significance. It is particularly recommended that exact cataloged parts be used for replacement of components which are designated by a (★) in the parts list and the shaded areas on the schematic diagram. Use of substitute replacement parts which do not have the same safety characteristics as recommended in factory service information may create Shock, Fire or other hazards, or excessive X-Radiation.

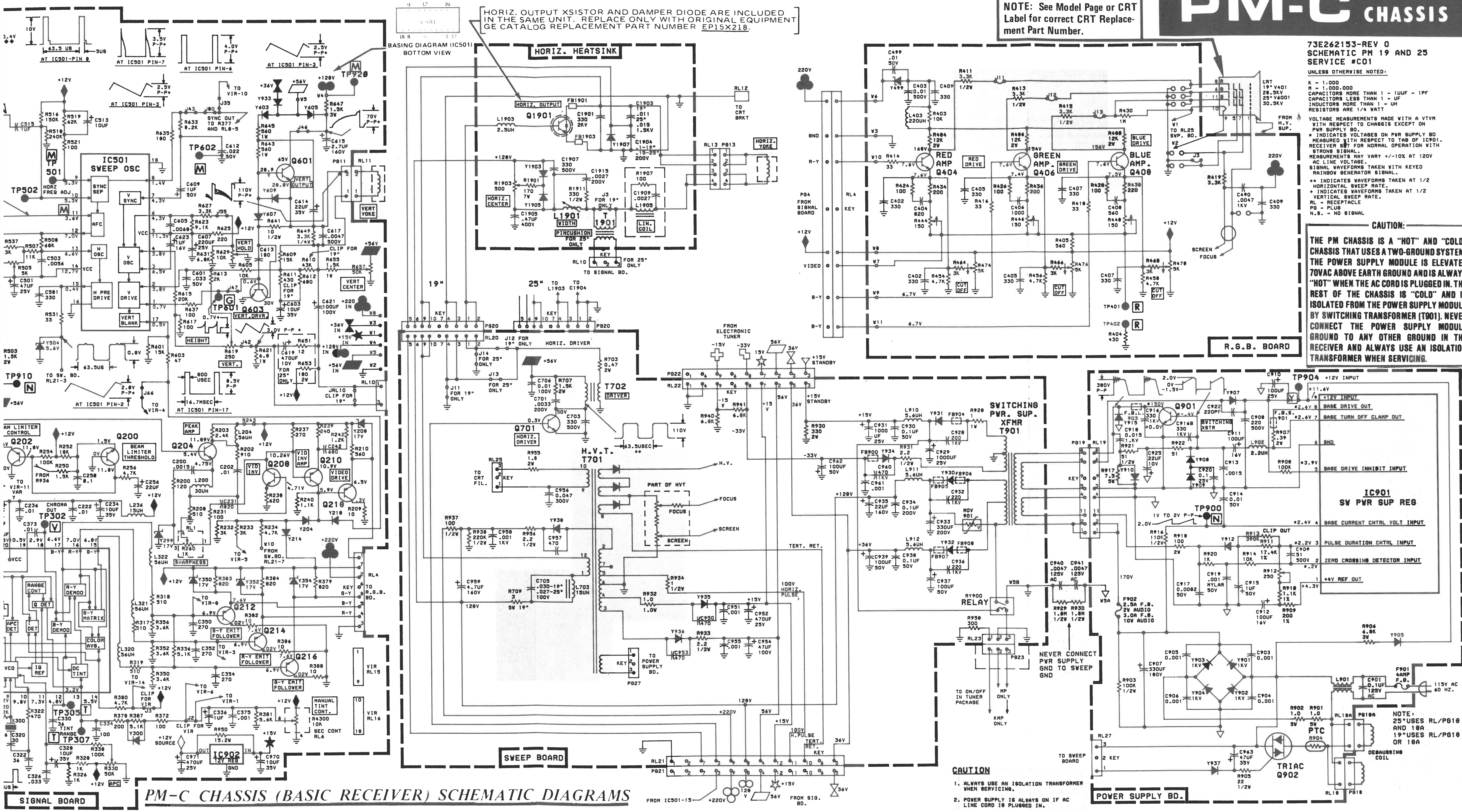


PM-C CHASSIS (BASIC RECEIVER) SCHEMATIC DIAGRAMS

[SEE PM CHASSIS MINI-MANUAL SUPPLEMENT FOR SCHEMATIC DIAGRAMS AND REPLACEMENT PARTS LISTS OF OPTIONAL FEATURES]

PM-C CHASSIS

NOTE: See Model Page or CRT Label for correct CRT Replacement Part Number.



PM-C CHASSIS (BASIC RECEIVER) SCHEMATIC DIAGRAMS

[SEE PM CHASSIS MINI-MANUAL SUPPLEMENT FOR SCHEMATIC DIAGRAMS AND REPLACEMENT PARTS LISTS OF OPTIONAL FEATURES]

19" & 25" PM—C CHASSIS

MINI-MANUAL

SERVICE INFORMATION
FOR TECHNICIAN
USE ONLY

ACCESSIBLE FROM INSIDE
TV SET ONLY

73E261918—3

Includes: Safety Information, Field Service Adjustments, Chassis Layout, (Basic) Receiver Schematics, and (Partial) Replacement Parts List.

[IMPORTANT — SAFETY INFORMATION]

THE PM CHASSIS IS A "HOT" AND "COLD" CHASSIS THAT USES A TWO-GROUND SYSTEM. THE POWER SUPPLY MODULE IS ELEVATED 70VAC ABOVE EARTH GROUND AND IS ALWAYS "HOT" WHEN THE AC CORD IS PLUGGED IN. THE REST OF THE CHASSIS IS "COLD" AND IS ISOLATED FROM THE POWER SUPPLY MODULE BY SWITCHINNG TRANSFORMER (T901). NEVER CONNECT THE POWER SUPPLY MODULE GROUND TO ANY OTHER GROUND IN THE RECEIVER AND ALWAYS USE AN ISOLATION TRANSFORMER WHEN SERVICING:

AFTER SERVICING, PERFORM THE FOLLOWING SAFETY CHECK:

A. Connect the VHF antenna to the VHF antenna terminals.

B. Do not plug the receiver into a power outlet. Connect both blades of the power plug together and place the ON—OFF switch in the ON position.

NOTE: For receivers with electronic ON/OFF switches connect a jumper from MOV901 (side connected to T901) to ground. Be sure to remove jumper after completing procedure below.

C. Measure between the shorted power plug and the following points. Readings should be as indicated below.

TEST POINT	MIN. OHMS	MAX. OHMS
UHF Antenna Terminals	600K	5.2 MEGS
VHF Antenna Terminals	600K	5.2 MEGS
Cabinet Back Screws	OPEN CIRCUIT	
All Metal Controls or Channel Selector Shafts (with Knobs Removed)	OPEN CIRCUIT	
All Non-Removable Metallic Knobs, Push Buttons, Earphone Jacks, etc.	OPEN CIRCUIT	
Metal Escutcheons and Overlays	OPEN CIRCUIT	

IF ANY READING IS OUT SIDE LIMITS SPECIFIED, THE CAUSE SHOULD BE IDENTIFIED AND CORRECTED BEFORE OPERATING THE RECEIVER.

ADJUSTMENT PROCEDURE

HIGH VOLTAGE

Normal high voltage is approximately 29.0KV (19") and 30.5KV (25") at zero beam current (black picture) with 120VAC line input. High Voltage is adjustable with B+ (128V) regulator adjust (R912). N

B+ (128V) REGULATOR ADJUSTMENT

1. Set Brite and Picture controls to minimum and measure DC voltage at TP920. M
2. Voltage should read +127 to +129 volts, if not, adjust R912 for exactly 128 volts.
3. Set Brite and Picture controls to maximum and voltage should now read 128VDC ± 0.5V, if not, troubleshoot power supply before proceeding.

HIGH VOLTAGE SHUTDOWN CIRCUIT CHECK V

PERFORM WHENEVER HIGH VOLTAGE CIRCUITRY OR POWER SUPPLY BOARD IS SERVICED.

1. With Brite and Picture controls set at minimum, Pin 1 (HVSD TEST) to ground should read +100 to +110 VDC.
2. Set Brite and Picture controls to maximum and measure DC voltage at Pin 4 (HVSD TEST) to ground. The voltage should be between -2.8 and -3.8 volts.
3. Short Pin 1 to Pin 3 (HVSD TEST). High voltage must shutdown, and stay down after short is removed.
4. Short Pin 1 to Pin 3 (HVSD TEST). High voltage must shutdown, and stay down after short is removed.
4. Remove short, switch receiver OFF and then back ON.
5. Set should operate normally.

NOTE: THE CAUSE FOR ANY DEVIATION FROM NORMAL NOTED IN STEPS 1, 2 AND 3 ABOVE MUST BE IDENTIFIED AND CORRECTED BEFORE OPERATING THE RECEIVER.

AGC ADJUSTMENT A

IF and RF/AGC is factory pre-set, field adjustment is not normally required. However, if the "pot seals" have been broken and misadjustment has occurred, re-adjustment is as follows:

1. Connect a Dot/Bar Generator to the antenna terminals.
2. Adjust IF/AGC (R124) using stairstep video output (Generator) to show 1.4 to 1.6V (P-P) on Scope at TP303. B
3. Adjust RF/AGC (R116) using color-bar pattern output at 1.2MV to read 6VDC at RL3, Pin 5 with a voltmeter.

A

AFC ADJUSTMENT B

1. Tune in a strong station with color.
2. Connect voltmeter between Pin 4 and Pin 6 of RL3. A
3. Set voltmeter to low DC voltage range and monitor AFC differential voltage.
4. Adjust L107 (AFC Cross adjust) until AFC differential voltage changes polarity suddenly, then re-adjust L107 for zero (0) volts.

B

APC ADJUSTMENT T

APC is factory pre-set, field adjustment is not normally required.

ORANGE LETTERS IDENTIFY CHASSIS LAYOUT GRID FOR COMPONENT LOCATION (SEE PM CHASSIS LAYOUT)

"FOUR-STEP" PURITY, CONVERGENCE, GREY-SC

STEP #1 — PURITY

1. Degauss and allow receiver to warm up at least 10 minutes before adjusting for purity. The convergence/purity magnetic assembly should be secured 1½ inch from the tip of the CRT pins (See Figure 1). The convergence at the picture center should be set approximately correct. Go to Step #2 (STATIC CONVERGENCE) and perform, if necessary before proceeding.
2. Using a black raster, Turn Blue, Red and Green Cutoff controls fully CCW. Turn brightness fully CW. Adjust Brite Center (R262), until raster is just cut off. Adjust Red Cutoff control CW for red raster.
3. Slide the deflection yoke back.
   - For receivers with squared and rounded tab purity rings set the purity rings so that the squared tab and the rounded tab are together and horizontal. Separate the rings to center the red bar (See Figures 2 and 2A). Do not rotate the rings as this will cause a vertical movement of the red bar (maintain the 180° horizontal plane between the purity rings). Both squared tabs must never be on one side or severe defocussing will result.
   - For receivers with triangular tab purity rings set the purity rings so that the two tabs are together and vertical pointing down. Separate the rings to center the red bar (See Figures 2 and 2A). Do not rotate the rings as this will cause a vertical movement of the red bar (maintain 180° vertical plane between the purity rings).
4. Slide the deflection yoke forward to obtain a pure red field.
5. Turn Red Cutoff control fully CCW, and, one at a time, turn up the Blue and Green Cutoff controls to check the purity of the blue and green fields. If necessary, repeat adjustments for best compromise. Secure the yoke clamp.

NOTE: **Some receiver models may have the Strip Magnetic Purity/Convergence tape which is non-adjustable and factory pre-set. If purity adjustment is required carefully remove the Magnetic Tape and replace with Purity/Convergence assembly part number EP42X8. Complete Step #1 — Purity Adjustment Procedure.**

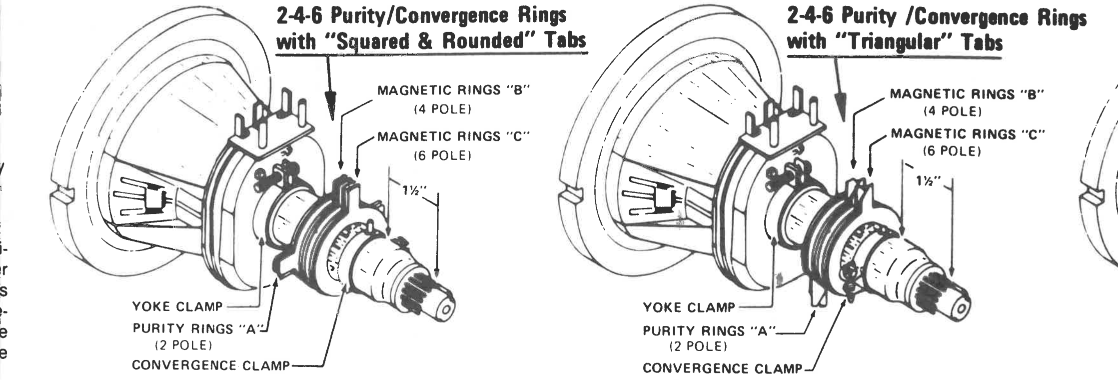


FIGURE 1. 2-4-6 PURITY/CONVERGENCE ASSEMBLIES AND "STRIP" MAGNETIC PU

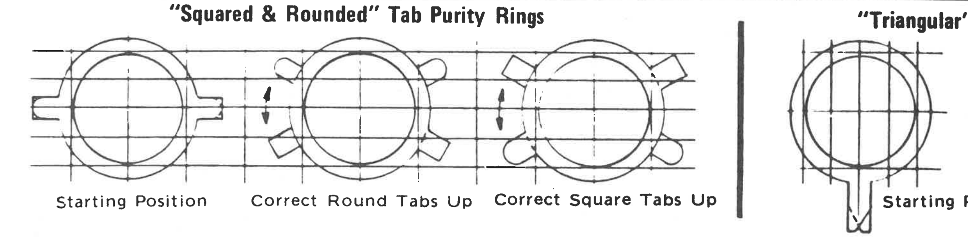
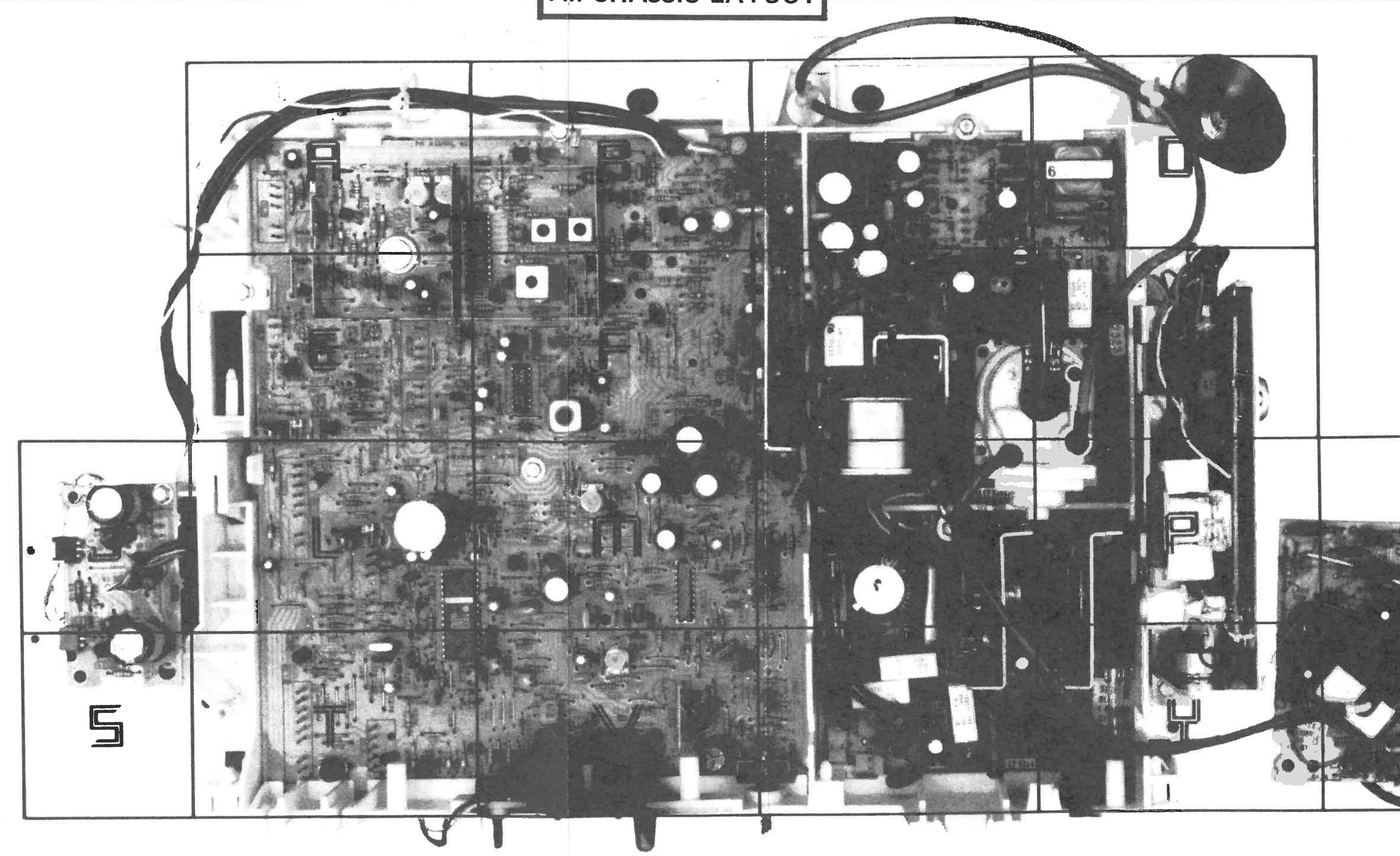


FIGURE 2. PURITY RINGS "STARTING POSITION" AND CORRECT ADJUSTMEN

PM CHASSIS LAYOUT



PURITY

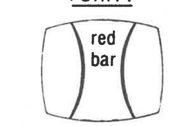
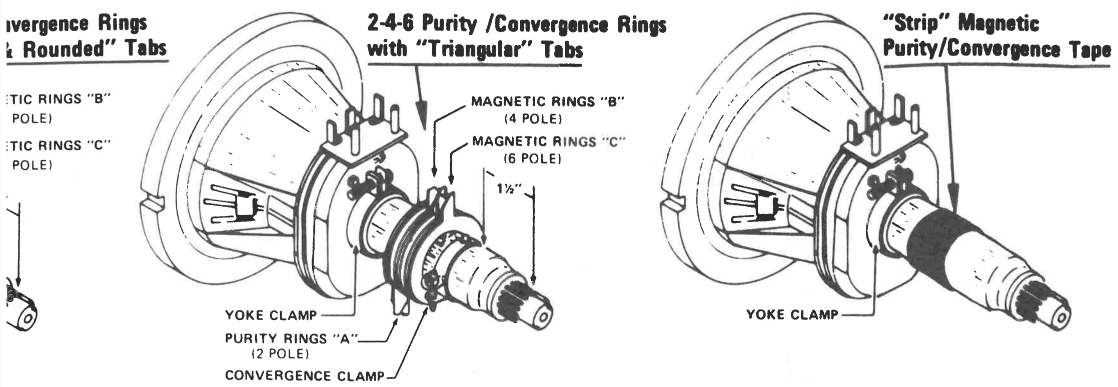


FIGURE 2A

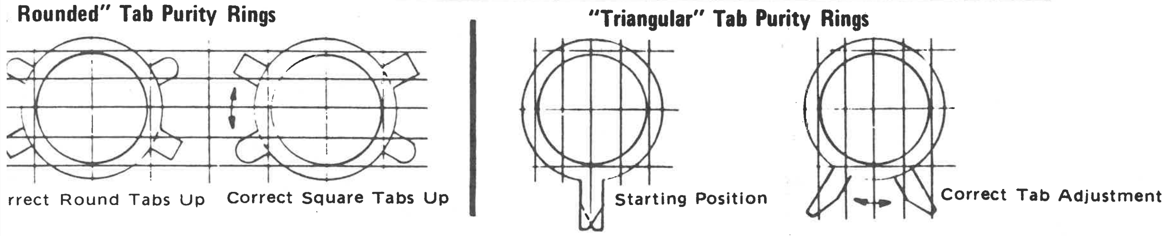
TES

TP10
TP10
TP11
TP11
TP11
TP19
TP21
TP30
TP30
TP30
TP30
TP30
TP30
TP40
TP40
TP50
TP50
TP60
TP60
TP90
TP90
TP91
TP92

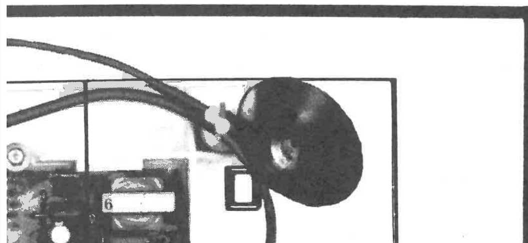
"FOUR-STEP" PURITY, CONVERGENCE, GREY-SCALE ADJUSTMENT

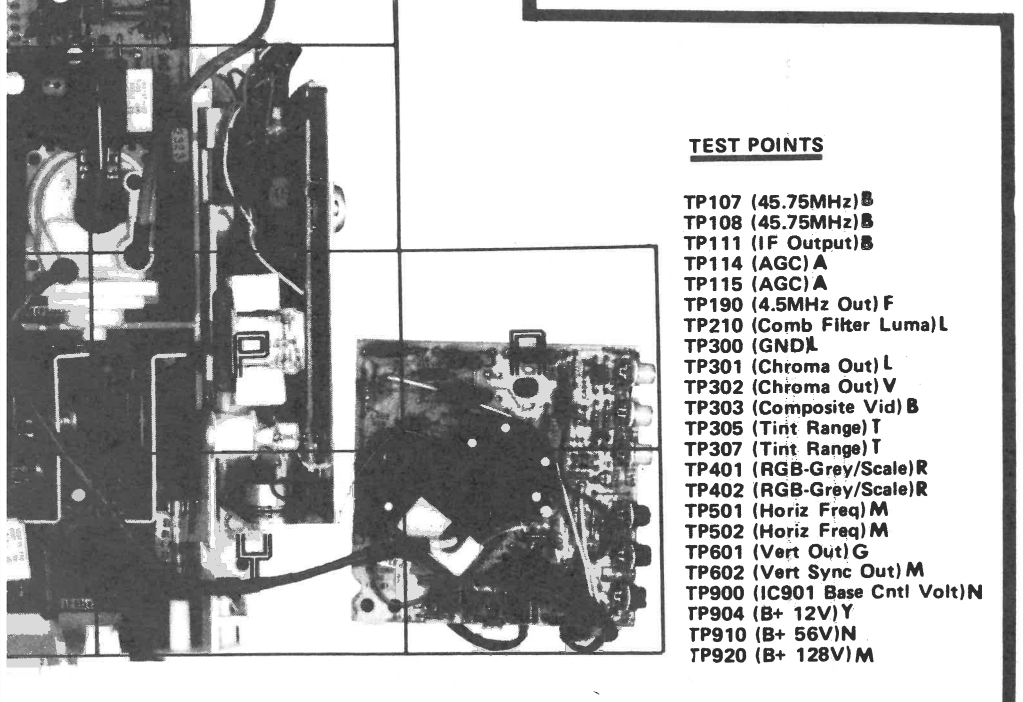


TY/CONVERGENCE ASSEMBLIES AND "STRIP" MAGNETIC PURITY/CONVERGENCE TAPE



RINGS "STARTING POSITION" AND CORRECT ADJUSTMENT ILLUSTRATION





PURITY

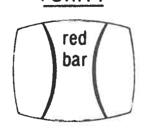


FIGURE 2A

WEDGE POSITIONS

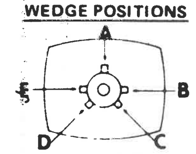


FIGURE 3
(Rear View)

HORIZONTAL SPLITS

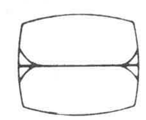


FIGURE 4

VERTICAL SPLITS

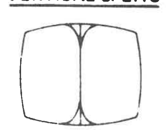


FIGURE 5

BLUE (HIGH)

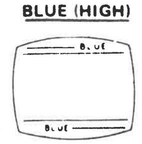


FIGURE 6

RED (HIGH)

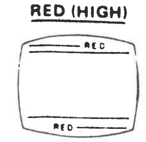


FIGURE 7

TEST POINTS

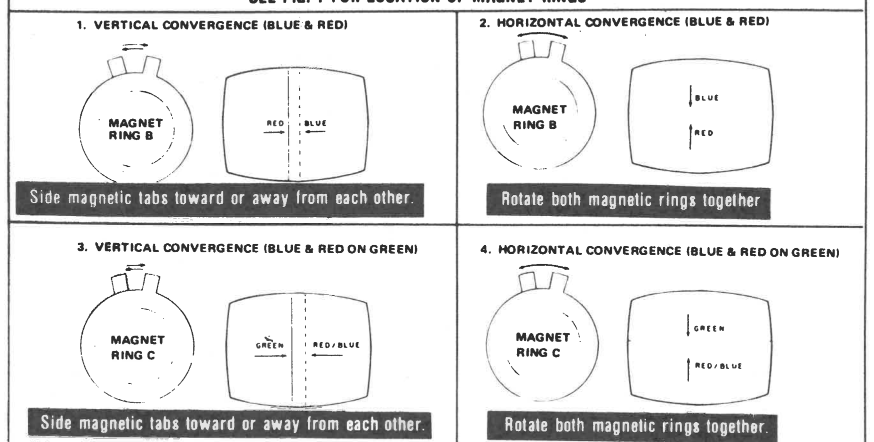
TP107 (45.75MHz)B
TP108 (45.75MHz)B
TP111 (IF Output)B
TP114 (AGC)A
TP115 (AGC)A
TP190 (4.5MHz Out) F
TP210 (Comb Filter Luma)L
TP300 (GND)L
TP301 (Chroma Out) L
TP302 (Chroma Out) V
TP303 (Composite Vid) B
TP305 (Tint Range) T
TP307 (Tint Range) T
TP401 (RGB-Grey/Scale)R
TP402 (RGB-Grey/Scale)R
TP501 (Horiz Freq) M
TP502 (Horiz Freq) M
TP601 (Vert Out) G
TP602 (Vert Sync Out) M
TP900 (IC901 Base Cntl Volt)N
TP904 (B+ 12V) Y
TP910 (B+ 56V)N
TP920 (B+ 128V) M

STEP #2 — STATIC CONVERGENCE

NOTE: This procedure is for 2-4-6 Purity/Convergence adjustable assemblies only (see note under Step#1 — Purity).

GREEN GUN IS THE CENTER GUN, CONVERGE THE RED AND BLUE. THEN CONVERGE RED AND BLUE ON GREEN. USE A CROSSHATCH PATTERN.

SEE FIG. 1 FOR LOCATION OF MAGNET RINGS



REPEAT STEP 1 AND 2. IF ALL LINES ARE NOT CONVERGED AT CENTER.

STEP #3 — DYNAMIC CONVERGENCE

1. Use a crosshatch pattern.
2. If it is necessary to correct for horizontal splits (See Figure 4), insert a wedge between the CRT and yoke at position A (Figure 3).
3. If is is necessary to correct for vertical splits (Figure 5) readjust the wedge slightly to the left or right.
4. For edge convergence insert a wedge in position B or E (Figure 3). If the blue is high (Figure 6) insert a wedge in position B. If the red is high (Figure 7) insert a wedge in position E.
5. To "lock" the dynamic convergence:
   A. If the second wedge was inserted in position B, insert the third wedge in position D.
   B. If the second wedge was inserted in position E, insert the third wedge in position C.
   C. Confirm that dynamic convergence remains properly aligned and lock each wedge in position with a strip of tape.

STEP #4 — GRAY SCALE AND BRIGHTNESS CENTERING

1. Tune in a color picture, set Brightness, Picture, Color, Red, Green, Blue Cutoff controls and screen control fully CCW. Set R, G, B Drive Controls and Brite Center (R262) fully CW.
2. Turn the VIR off. Place black tape over Light Sensor (not on all models).
3. Disconnect the vertical yoke plug, PG11. Short TP401 to TP402. Adjust Screen Control CW until raster line lights. Then turn it CCW until the line goes black. Disconnect the short from TP401.
4. Turn Brightness fully CW. Turn Brite Center CCW until first gun just lights. Adjust Red, Blue and Green Cutoff controls to just illuminate the line. Connect vertical yoke plug, PG11.
5. Turn Picture Control and Brightness Range up for normal picture. Adjust the Drive control of the predominate color for best gray scale in the high brightness areas.
6. Readjust Cutoff controls for low brightness areas. Repeat as necessary. Remove tape from Light Sensor opening.
7. Brite Center Adjustment - Turn the Brightness control fully CW and the Picture control fully CCW. Turn the Brite Center so that the black areas in the picture are slightly gray.

19" AND 25" PM—C CHASSIS PARTIAL REPLACE

CIRCUIT BOARD ASSEMBLIES

PART NO.	DESCRIPTION
EP93X513	AUDIO CIRCUIT BOARD (2 Watt Units)
EP93X522	AUDIO/VIDEO CIRCUIT BOARD (5 & 10 Watt Units)
EP93X435	COMB FILTER CIRCUIT BOARD
EP93X512	DUAL 10 WATT AUDIO CIRCUIT BOARD (2, 5 & 10 Watt Units)
EP93X426	HORIZ HEAT SINK CIRCUIT BOARD (25")
EP93X523	HORIZ HEAT SINK CIRCUIT BOARD (19")
EP93X514	POWER SUPPLY CIRCUIT BOARD (2 Watt Units)
EP93X515	POWER SUPPLY CIRCUIT BOARD (5 & 10 Watt Units)
EP93X526	RGB CIRCUIT BOARD (19")
EP93X527	RGB CIRCUIT BOARD (25")
EP93X427	SIGNAL CIRCUIT BOARD
EP93X438	SOUND PLUS CIRCUIT BOARD
EP93X520	SWEEP CIRCUIT BOARD (19")
EP93X521	SWEEP CIRCUIT BOARD (25")
EP93X462	VIR CIRCUIT BOARD

CHASSIS

PARTS NOT ON CIRCUIT BOARDS

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
* C940	EP25X184	4700pf, 20%, 125VAC, Polyester
* C941	EP25X184	4700pf, 20%, 125VAC, Polyester

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
AR230	EP14X369	12 ohm, 5%, 1/2W, Metal Oxide
* R929	EP14X365	1.8 meg ohm, 10%, 1/2W, Carbon
* R930	EP14X365	1.8 meg ohm, 10%, 1/2W, Carbon

DIODES

REF. NO.	PART NO.	DESCRIPTION
AY212	EP57X4	Rectifier, Silicon
AY213	EP57X4	Rectifier, Silicon

COILS & TRANSFORMER

REF. NO.	PART NO.	DESCRIPTION
	EP36X462	COIL-Degaussing (19")
	EP36X469	COIL-Degaussing (2 Used) (25")
	EP42X8	CONVERGENCE ASM.
*	EP76X37	YOKE ASM (19")
*	EP76X39	YOKE ASM (25")
L50	ES36X82	CHOKE-220uh, 10%
L5000	EP36X471	CHOKE-.33uh, 20%, (10 Watt)

HORIZ HEAT SINK CIRCUIT BOARD

EP93X426 (25")
EP93X523 (19")

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
* C1901	ES18X13	330pf, 20%, 2KV, Cer. Disc
* C1903	EP25X145	.01luf, 5%, 1.5KV, Polyproplyene (19")
* C1903	EP25X177	.015uf, 5%, 1.5KV, Polyproplyene (25")
* C1904	EP25X152	.luf, 10%, 200V Polyproplyene (19")
* C1904	EP25X159	.15uf, 10%, 200V Polyproplyene (25")

TRANSISTOR

REF. NO.	PART NO.	DESCRIPTION
Q1901	EP15X218	HORIZ OUTPUT-NPN, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y1903	EP57X5	Rectifier, 400V
Y1905	EP57X5	Rectifier, 400V
Y1907	EP57X5	Rectifier, 400V

COILS & TRANSFORMER

REF. NO.	PART NO.	DESCRIPTION
* L1901	EP36X487	COIL-Width (19")
* L1901	EP36X467	COIL-Width (25")
* L1905	EP36X453	COIL-Linearity (19")
* L1905	EP36X472	COIL-Linearity (25")
* T1901	EP36X448	COIL-Pincushion Asm. (25" Or

SWEEP CIRCUIT BOARD

EP93X520 (19")
EP93X521 (25")

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
* C705	EP25X179	.03uf, 5%, 200V Polypronpy
* C705	EP25X180	.027uf, 5%, 200V, Polypron

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
* MOV901	EP14X353	VARISTOR-Metal Oxide
R703	EP14X348	.47 ohm, 5%, 2W, Metal Oxi
* R707	EP14X351	1.5K ohm, 5%, 2W, Metal Ox
* R709	EP14X318	3 ohm, 10%, 5W, Wirewound
R928	EP14X152	1K ohm, 5%, 2W, Metal Oxid
* R930	EP14X350	330K ohm, 5%, 2W, Metal Ox
* R931	ES14X80	2.2 ohm, 5%, 1/2W, Carbon
* R932	EP14X347	1K ohm, 5%, 1W, Metal Oxid
* R933	ES14X80	2.2 ohm, 5%, 1/2W, Carbon
* R934	ES14X79	1 ohm, 5%, 1/2W, Carbon
* R937	EP14X187	100 ohm, 5%, 1/2W, Carbon
R938	EP14X403	220K ohm, 5%, 1/2W, Carbon
* R940	EP14X363	6.8K ohm, 5%, 1/8W, Carbon
* R941	FP14X363	6.8K ohm, 5%, 1/8W, Carbon
R955	EP14X349	1.8 ohm, 5%, 2W, Metal Oxi
R955	EP14X269	2.2 ohm, 5%, 2W, Metal Oxi
* R956	ES14X80	2.2 ohm, 5%, 1/2W, Carbon
R958	EP14X402	300 ohm, 5%, 1/2W, Carbon

TRANSISTOR

REF. NO.	PART NO.	DESCRIPTION
Q701	EP15X19	HORIZ DRIVER-NPN, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y930	EP57X11	Rectifier
Y931	EP57X5	Rectifier, 400V
Y932	EP57X11	Rectifier
Y934	EP57X5	Rectifier, 400V
Y935	EP16X154	Rectifier
Y936	EP57X5	Rectifier, 600V
Y938	EP16X154	Rectifier

COILS & TRANSFORMER

REF. NO.	PART NO.	DESCRIPTION
* L703	EP36X463	CHOKE-15uh
RY900	EP41X132	RELAY
* T701	EP77X61	TRANSFORMER-H.V. (19")
* T701	EP77X62	TRANSFORMER-H.V. (25")
T702	EP64X57	TRANSFORMER-Buffer
* T901	EP88X50	TRANSFORMER-Low Voltage P

RGB CIRCUIT BOARD

EP93X526 (19")
EP93X527 (25")

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
* R411	EP14X183	3.3K ohm, 5%, 1/2W, Carbo
* R413	EP14X183	3.3K ohm, 5%, 1/2W, Carbo
* R415	EP14X183	3.3K ohm, 5%, 1/2W, Carbo
* R419	EP14X183	3.3K ohm, 5%, 1/4W, Carbo
* R424	ES14X70	100 ohm, 5%, 1/4W, Carbon
* R426	ES14X70	100 ohm, 5%, 1/4W, Carbon

ENT

" Magnetic
/Convergence Tape



NCE TAPE

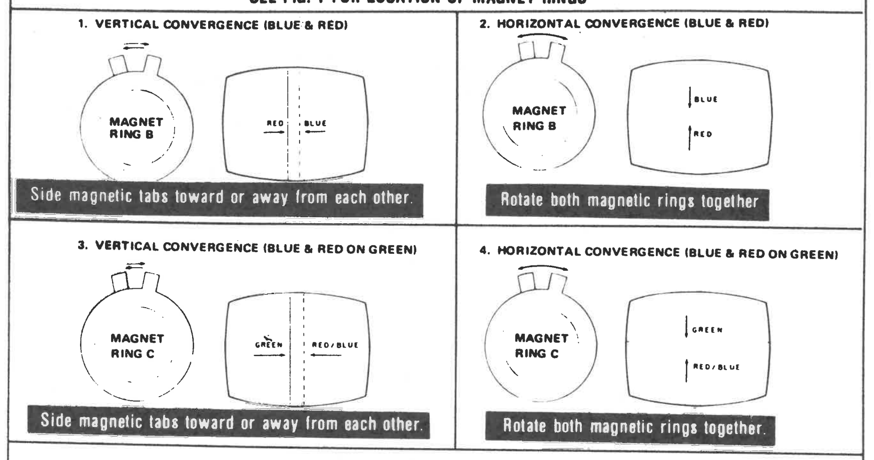
Correct Tab Adjustment

STEP #2 — STATIC CONVERGENCE

NOTE: This procedure is for 2-4-6 Purity/Convergence adjustable assemblies only (see note under Step#1 — Purity).

GREEN GUN IS THE CENTER GUN, CONVERGE THE RED AND BLUE. THEN CONVERGE RED AND BLUE ON GREEN. USE A CROSSHATCH PATTERN.

SEE FIG. 1 FOR LOCATION OF MAGNET RINGS



REPEAT STEP 1 AND 2. IF ALL LINES ARE NOT CONVERGED AT CENTER.

IS

HORIZONTAL SPLITS

B

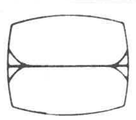


FIGURE 4

VERTICAL SPLITS

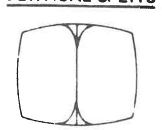
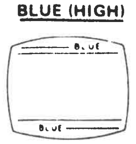


FIGURE 5

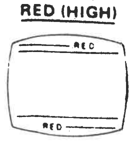
BLUE (HIGH)



L

FIGURE 6

RED (HIGH)



lt)N

FIGURE 7

STEP #3 — DYNAMIC CONVERGENCE

1. Use a crosshatch pattern.
2. If it is necessary to correct for horizontal splits (See Figure 4), insert a wedge between the CRT and yoke at position A (Figure 3).
3. If is is necessary to correct for vertical splits (Figure 5) readjust the wedge slightly to the left or right.
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5. To "lock" the dynamic convergence:
   - A. If the second wedge was inserted in position B, insert the third wedge in position D.
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STEP #4 — GRAY SCALE AND BRIGHTNESS CENTERING

1. Tune in a color picture, set Brightness, Picture, Color, Red, Green, Blue Cutoff controls and screen control fully CCW. Set R, G, B Drive Controls and Brite Center (R262) fully CW.
2. Turn the VIR off. Place black tape over Light Sensor (not on all models).
3. Disconnect the vertical yoke plug, PG11. Short TP401 to TP402. Adjust Screen Control CW until raster line lights. Then turn it CCW until the line goes black. Disconnect the short from TP401.
4. Turn Brightness fully CW. Turn Brite Center CCW until first gun just lights. Adjust Red, Blue and Green Cutoff controls to just illuminate the line. Connect vertical yoke plug, PG11.
5. Turn Picture Control and Brightness Range up for normal picture. Adjust the Drive control of the predominate color for best gray scale in the high brightness areas.
6. Readjust Cutoff controls for low brightness areas. Repeat as necessary. Remove tape from Light Sensor opening.
7. Brite Center Adjustment - Turn the Brightness control fully CW and the Picture control fully CCW. Turn the Brite Center so that the black areas in the picture are slightly gray.

19" AND 25" PM—C CHASSIS PARTIAL REPLACEMENT PARTS LIST

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EP93X527	RGB CIRCUIT BOARD (25")
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EP93X438	SOUND PLUS CIRCUIT BOARD
EP93X520	SWEEP CIRCUIT BOARD (19")
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EP93X462	VIR CIRCUIT BOARD

CHASSIS

PARTS NOT ON CIRCUIT BOARDS

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* C941	EP25X184	4700pf, 20%, 125VAC, Polyester

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REF. NO.	PART NO.	DESCRIPTION
AR230	EP14X369	12 ohm, 5%, 1/2W, Metal Oxide
* R929	EP14X365	1.8 meg ohm, 10%, 1/2W, Carbon
* R930	EP14X365	1.8 meg ohm, 10%, 1/2W, Carbon

DIODES

REF. NO.	PART NO.	DESCRIPTION
AY212	EP57X4	Rectifier, Silicon
AY213	EP57X4	Rectifier, Silicon

COILS & TRANSFORMER

REF. NO.	PART NO.	DESCRIPTION
	EP36X462	COIL-Degaussing (19")
	EP36X469	COIL-Degaussing (2 Used) (25")
	EP42X8	CONVERGENCE ASM.
*	EP76X37	YOKE ASM (19")
*	EP76X39	YOKE ASM (25")
L50	ES36X82	CHOKE-220uh, 10%
L5000	EP36X471	CHOKE-.33uh, 20%, (10 Watt)

HORIZ HEAT SINK CIRCUIT BOARD

EP93X426 (25")
EP93X523 (19")

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
* C1901	ES18X13	330pf, 20%, 2KV, Cer. Disc
* C1903	EP25X145	.011uf, 5%, 1.5KV, Polyproplyene (19")
* C1903	EP25X177	.015uf, 5%, 1.5KV, Polyproplyene (25")
* C1904	EP25X152	.1uf, 10%, 200V Polyproplyene (19")
* C1904	EP25X159	.15uf, 10%, 200V Polyproplyene (25")

TRANSISTOR

REF. NO.	PART NO.	DESCRIPTION
Q1901	EP15X218	HORIZ OUTPUT-NPN, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y1903	EP57X5	Rectifier, 400V
Y1905	EP57X5	Rectifier, 400V
Y1907	EP57X5	Rectifier, 400V

COILS & TRANSFORMER

REF. NO.	PART NO.	DESCRIPTION
* L1901	EP36X487	COIL-Width (19")
* L1901	EP36X467	COIL-Width (25")
* L1905	EP36X453	COIL-Linearity (19")
* L1905	EP36X472	COIL-Linearity (25")
* T1901	EP36X448	COIL-Pincushion Asm. (25" Only)

SWEEP CIRCUIT BOARD

EP93X520 (19")
EP93X521 (25")

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
* C705	EP25X179	.03uf, 5%, 200V Polypronpylene (19")
* C705	EP25X180	.027uf, 5%, 200V, Polypronpylene (25")

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
* MOV901	EP14X353	VARISTOR-Metal Oxide
R703	EP14X348	.47 ohm, 5%, 2W, Metal Oxide
* R707	EP14X351	1.5K ohm, 5%, 2W, Metal Oxide
* R709	EP14X318	3 ohm, 10%, 5W, Wirewound
R928	EP14X152	1K ohm, 5%, 2W, Metal Oxide
* R930	EP14X350	330K ohm, 5%, 2W, Metal Oxide
* R931	ES14X80	2.2 ohm, 5%, 1/2W, Carbon
* R932	EP14X347	1K ohm, 5%, 1W, Metal Oxide
* R933	ES14X80	2.2 ohm, 5%, 1/2W, Carbon
* R934	ES14X79	1 ohm, 5%, 1/2W, Carbon
* R937	EP14X187	100 ohm, 5%, 1/2W, Carbon
R938	EP14X403	220K ohm, 5%, 1/2W, Carbon
* R940	EP14X363	6.8K ohm, 5%, 1/8W, Carbon
* R941	EP14X363	6.8K ohm, 5%, 1/8W, Carbon
R955	EP14X349	1.8 ohm, 5%, 2W, Metal Oxide (19")
R955	EP14X269	2.2 ohm, 5%, 2W, Metal Oxide (25")
* R956	ES14X80	2.2 ohm, 5%, 1/2W, Carbon
R958	EP14X402	300 ohm, 5%, 1/2W, Carbon

TRANSISTOR

REF. NO.	PART NO.	DESCRIPTION
Q701	EP15X19	HORIZ DRIVER-NPN, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y930	EP57X11	Rectifier
Y931	EP57X5	Rectifier, 400V
Y932	EP57X11	Rectifier
Y934	EP57X5	Rectifier, 400V
Y935	EP16X154	Rectifier
Y936	EP57X5	Rectifier, 600V
Y938	EP16X154	Rectifier

COILS & TRANSFORMER

REF. NO.	PART NO.	DESCRIPTION
* L703	EP36X463	CHOKE-15uh
RY900	EP41X132	RELAY
* T701	EP77X61	TRANSFORMER-H.V. (19")
* T701	EP77X62	TRANSFORMER-H.V. (25")
T702	EP64X57	TRANSFORMER-Buffer
* T901	EP88X50	TRANSFORMER-Low Voltage Power

RGB CIRCUIT BOARD

EP93X526 (19")
EP93X527 (25")

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
* R411	EP14X183	3.3K ohm, 5%, 1/2W, Carbon
* R413	EP14X183	3.3K ohm, 5%, 1/2W, Carbon
* R415	EP14X183	3.3K ohm, 5%, 1/2W, Carbon
* R419	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
* R424	ES14X70	100 ohm, 5%, 1/4W, Carbon
* R426	ES14X70	100 ohm, 5%, 1/4W, Carbon
* R428	ES14X70	100 ohm, 5%, 1/8W, Carbon
* R434	EP14X329	200 ohm, 5%, 1/4W, Carbon
* R436	EP14X329	200 ohm, 5%, 1/4W, Carbon
* R438	EP14X129	220 ohm, 5%, 1/8W, Carbon
* R464	EP14X381	3K ohm, 5%, 1/4W, Carbon
* R466	EP14X381	3K ohm, 5%, 1/4W, Carbon
* R468	EP14X381	3K ohm, 5%, 1/4W, Carbon
* R484	EP14X231	12K ohm, 5%, 2W, Metal Oxide
* R486	EP14X231	12K ohm, 5%, 2W, Metal Oxide
* R488	EP14X231	12K ohm, 5%, 2W, Metal Oxide

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q404	EP15X61	RED DRIVE-NPN, Silicon
Q406	EP15X61	GREEN DRIVE-NPN, Silicon
Q408	EP15X61	BLUE DRIVE-NPN, Silicon

DIODE

REF. NO.	PART NO.	DESCRIPTION
Y499	EP16X52	Zener, 15V

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
*	EP34X69	SOCKET-CRT

SIGNAL CIRCUIT BOARD

EP93X427

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
*R503	EP14X351	1.5K ohm, 5%, 2W, Metal Oxide
*R645	EP14X102	560 ohm, 5%, 1W, Metal Oxide
*R647	EP14X230	1.5K ohm 5%, 3W, Flame Proof
*R990	EP14X329	200 ohm, 5%, 1/2W, Carbon (25" Only)

INTERGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
*	EP62X167	HVSD-Thick Film
IC101	EP84X213	IF/AGC/DET
IC190	EP84X216	AUDIO DET/AMP
IC300	EP84X221	CHROMA/VIDEO
IC501	EP84X215	SWEEP OSC.
IC902	EP84X217	3 TERMINAL VOL. REG.

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q105	EP15X104	PRE AMP-Hi Freq
Q107	EP15X87	VIDEO KILLER-NPN, Silicon
Q110	EP15X87	VIDEO BUFFER-NPN, Silicon
Q112	EP15X48	EXT. VIDEO AMP-PNP, Silicon
Q114	EP15X87	VIDEO BUFFER-NPN, Silicon
Q116	EP15X48	VIDEO ISO.-PNP, Silicon
Q118	EP15X87	VIDEO BUFFER-NPN, Silicon
Q200	EP15X88	BEAM LIMITER THRESHOLD-NPN, Silicon
Q202	EP15X48	BEAM LIMITER CONTROL-PNP, Silicon
Q204	EP15X88	PEAK AMP-NPN, Silicon
Q208	EP15X88	VIDEO INV.-NPN, Silicon
Q210	EP15X48	VIDEO INV. AMP-PNP, Silicon
Q212	EP15X48	B-Y EMIT FOLLOWER-PNP, Silicon
Q214	EP15X48	R-Y EMIT FOLLOWER-PNP, Silicon
Q216	EP15X48	G-Y EMIT FOLLOWER-PNP, Silicon
Q218	EP15X48	VIDEO DRIVER-PNP, Silicon
Q300	EP15X226	NPN, Silicon
Q601	EP15X105	VERTICAL OUTPUT-NPN, Silicon
Q603	EP15X105	VERTICAL DRIVER-NPN, Silicon

CONTINUED (See Mini-Manual Supplement 73E261919—3)

73E261918—3

19" & 25" PM—B CHASSIS OPTIONAL FEATURES SUPPLEMENT

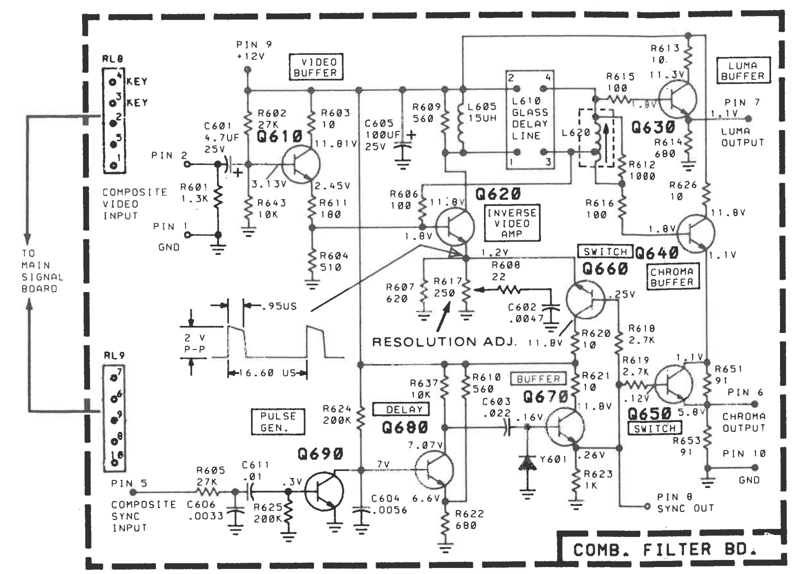
MINI-MANUAL

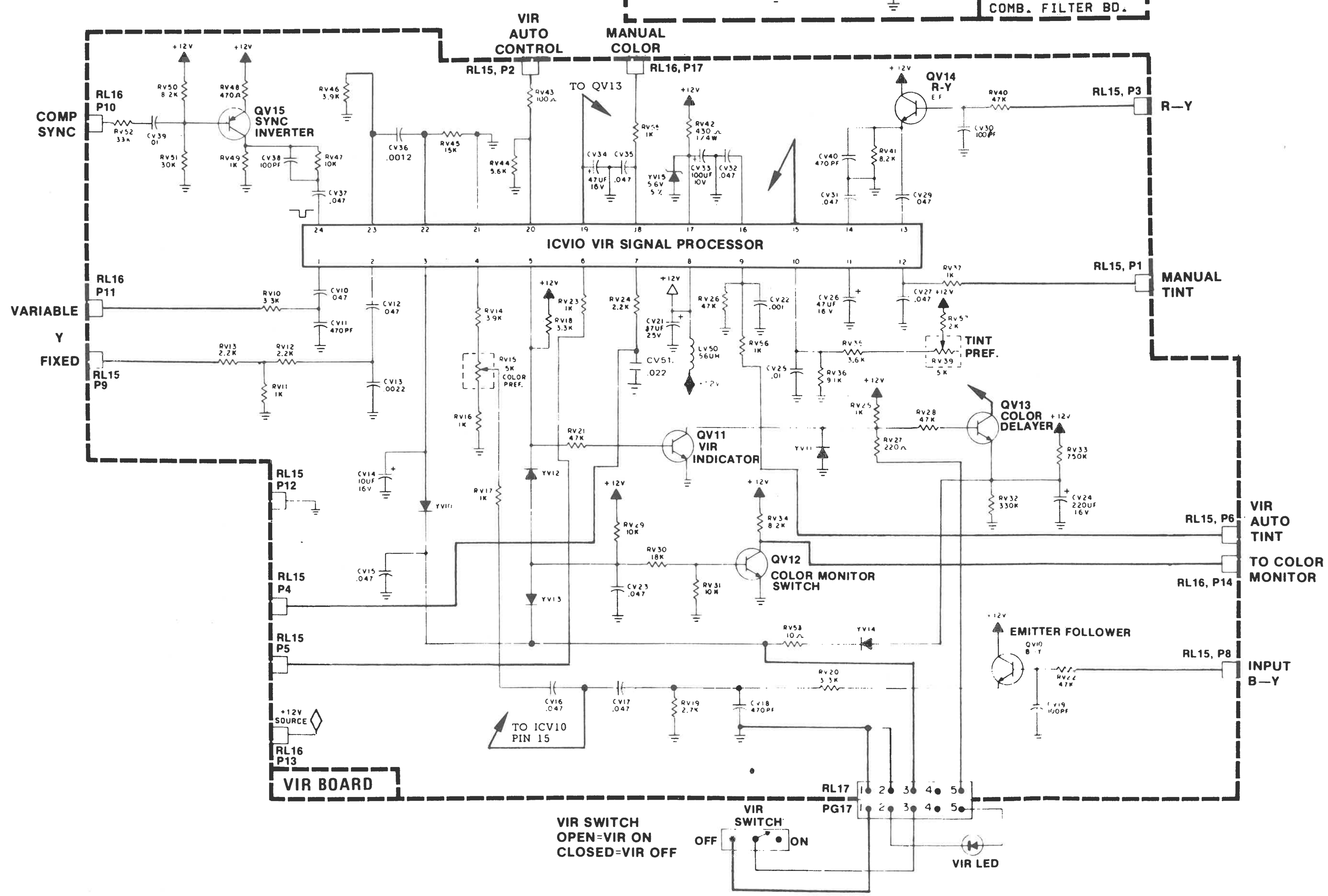
SERVICE INFORMATION
FOR TECHNICIAN
USE ONLY

ACCESSIBLE FROM INSIDE
TV SET ONLY

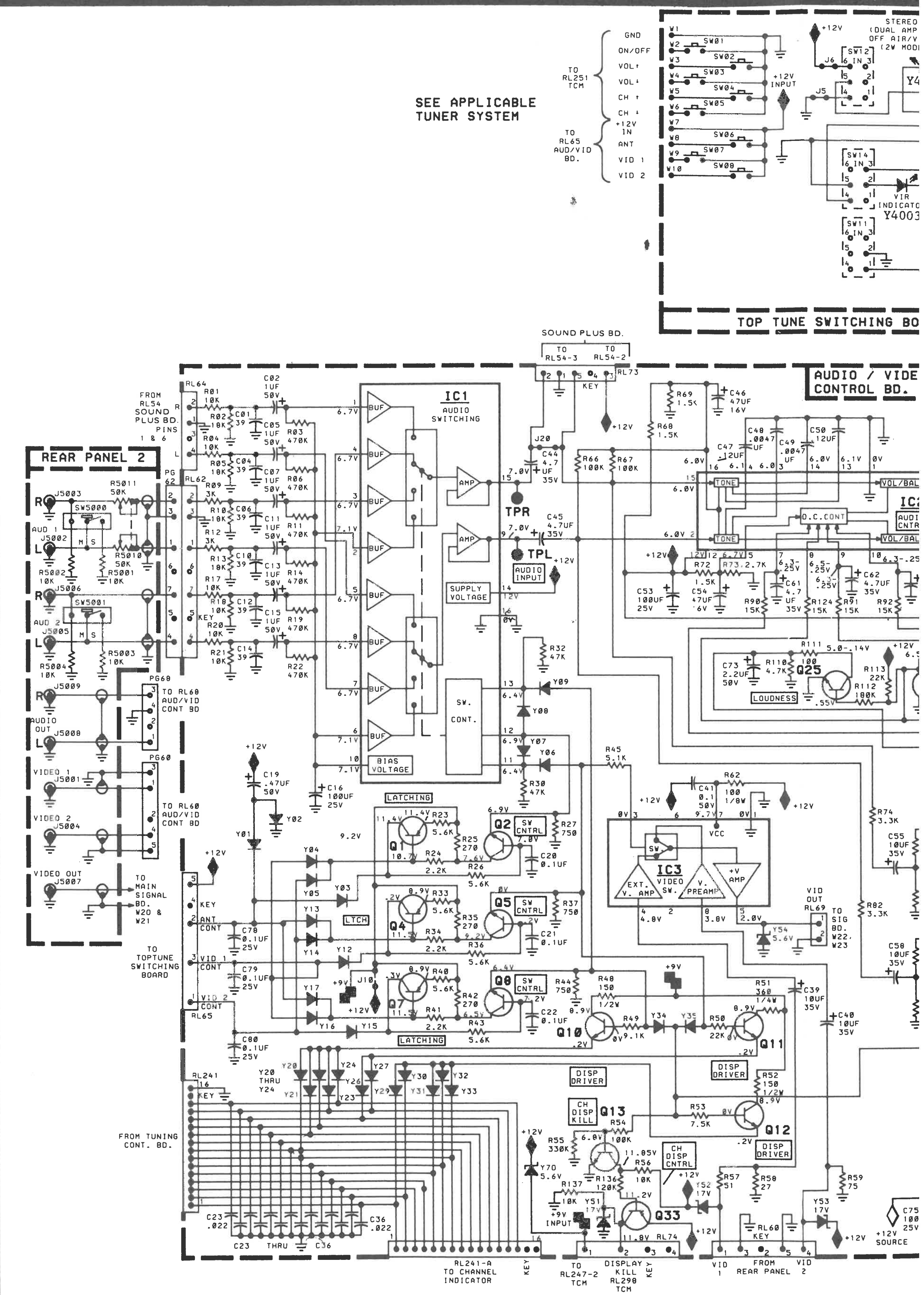
73E261919—2

Includes: VIR, Comb-Filter, Audio/Video Switching, 10W/5W Audio, and "Sound Plus" Audio Schematics, Plus, Audio/Video Circuits Description, & Parts List.

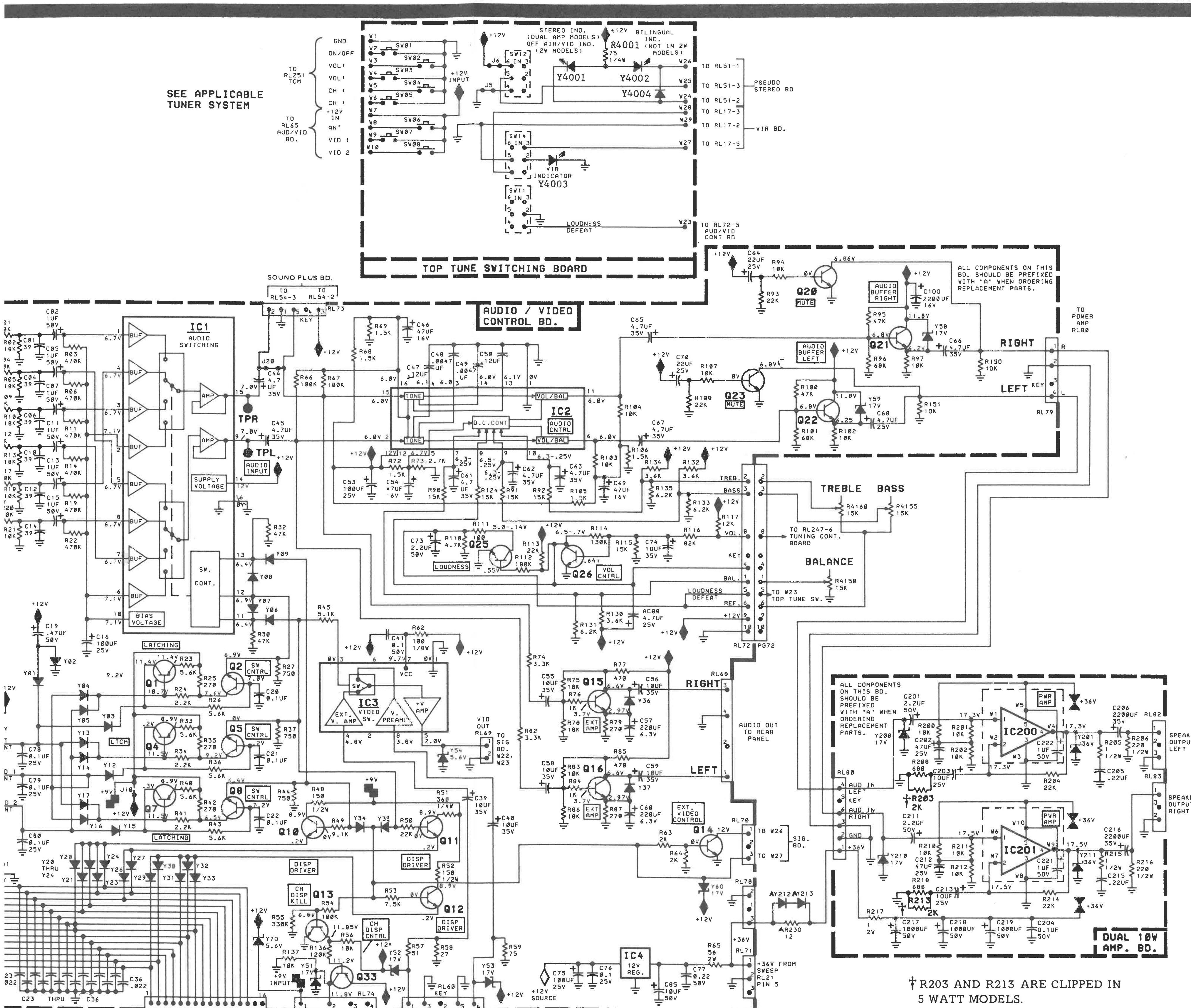




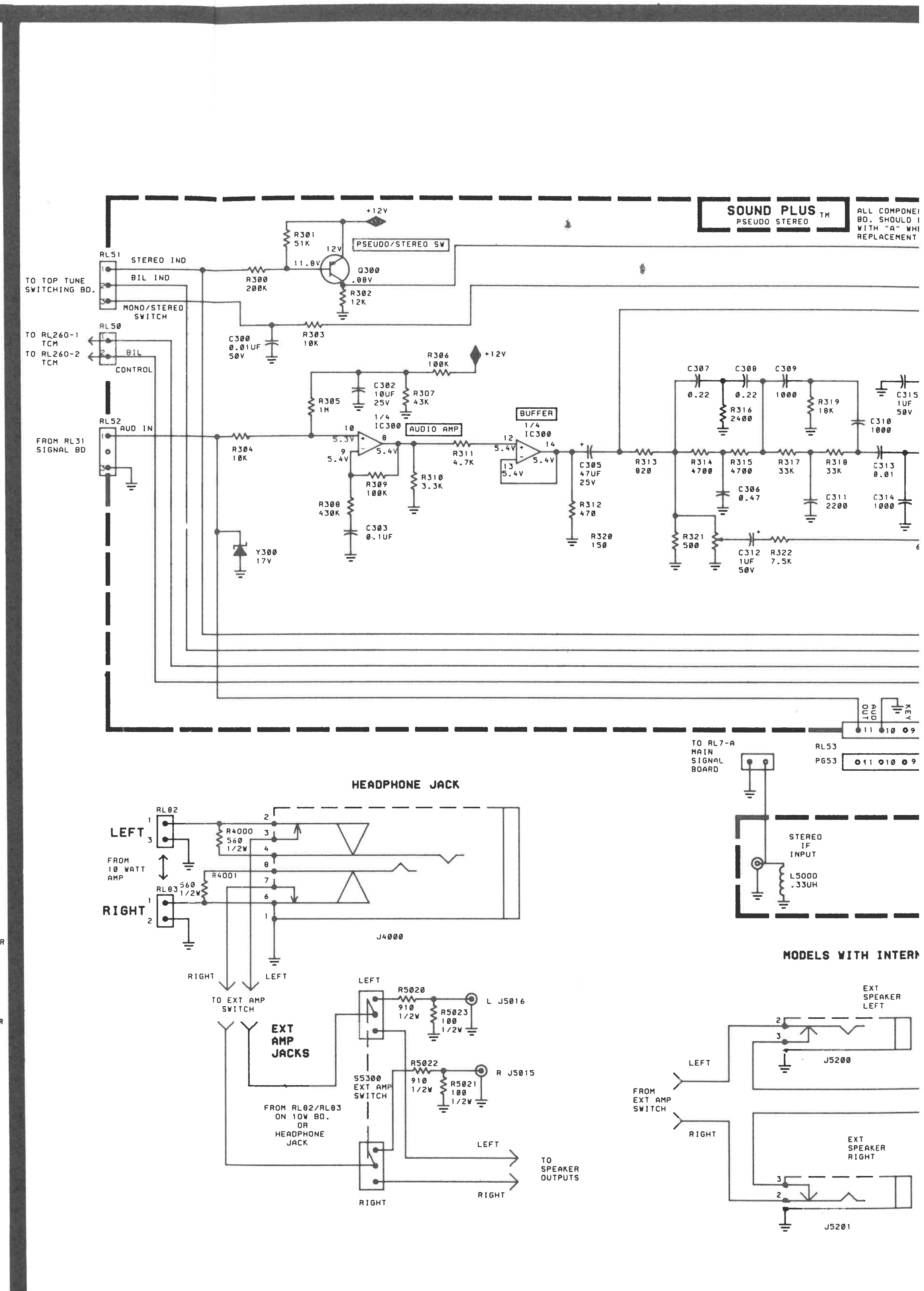
PM/VIR BOARD AND COMB FILTER BOARD SCHEMATIC DIAGRAMS



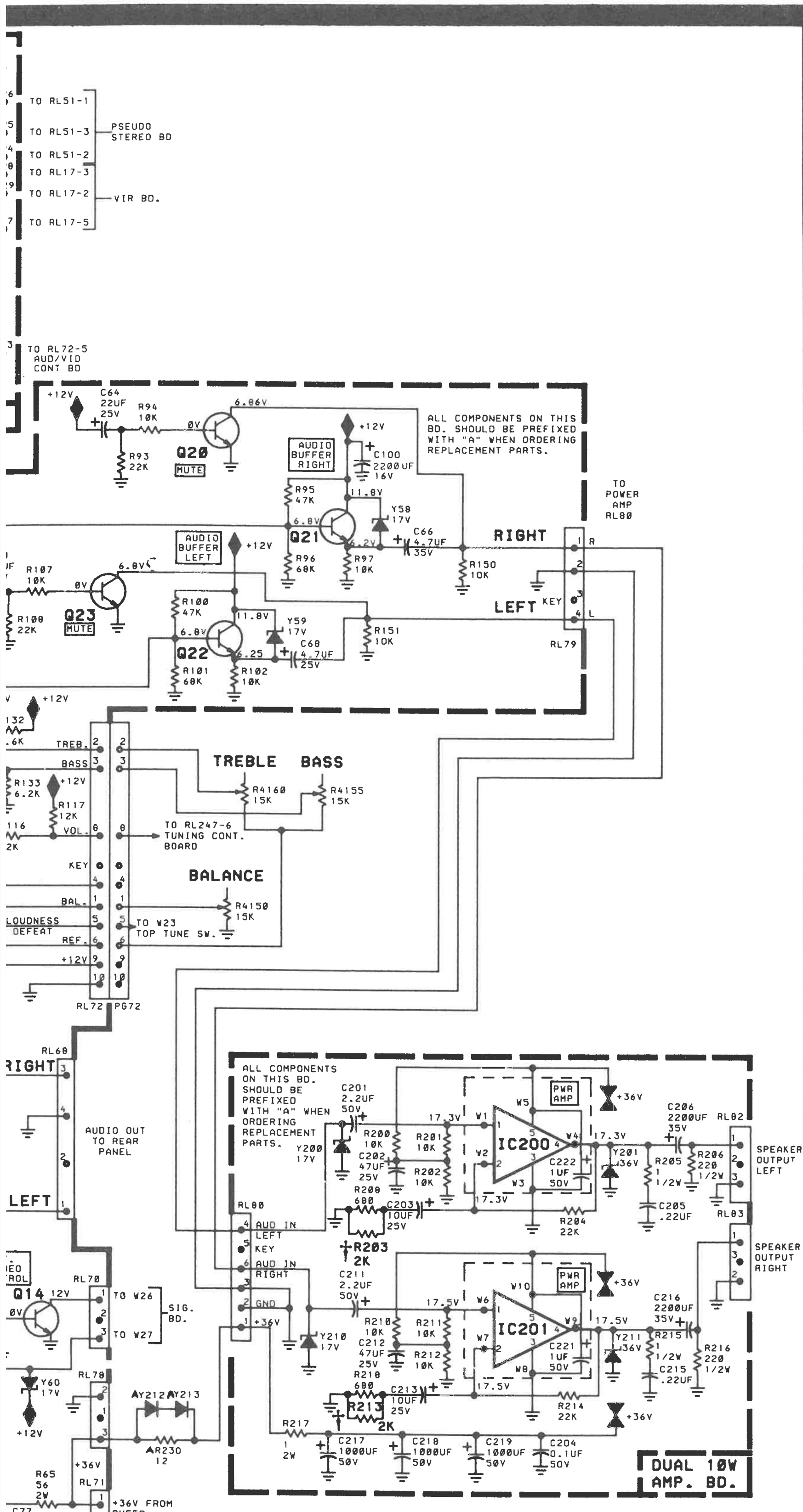
PM CHASSIS — AUDIO/VIDEO CONTROL BD., DUAL 10WATT (5WATT) AMP.



HASSIS — AUDIO/VIDEO CONTROL BD., DUAL 10WATT (5WATT) AMP. BD., AND TOP TUNE SWITCHING BD. SCHEMATIC DIAGRAMS

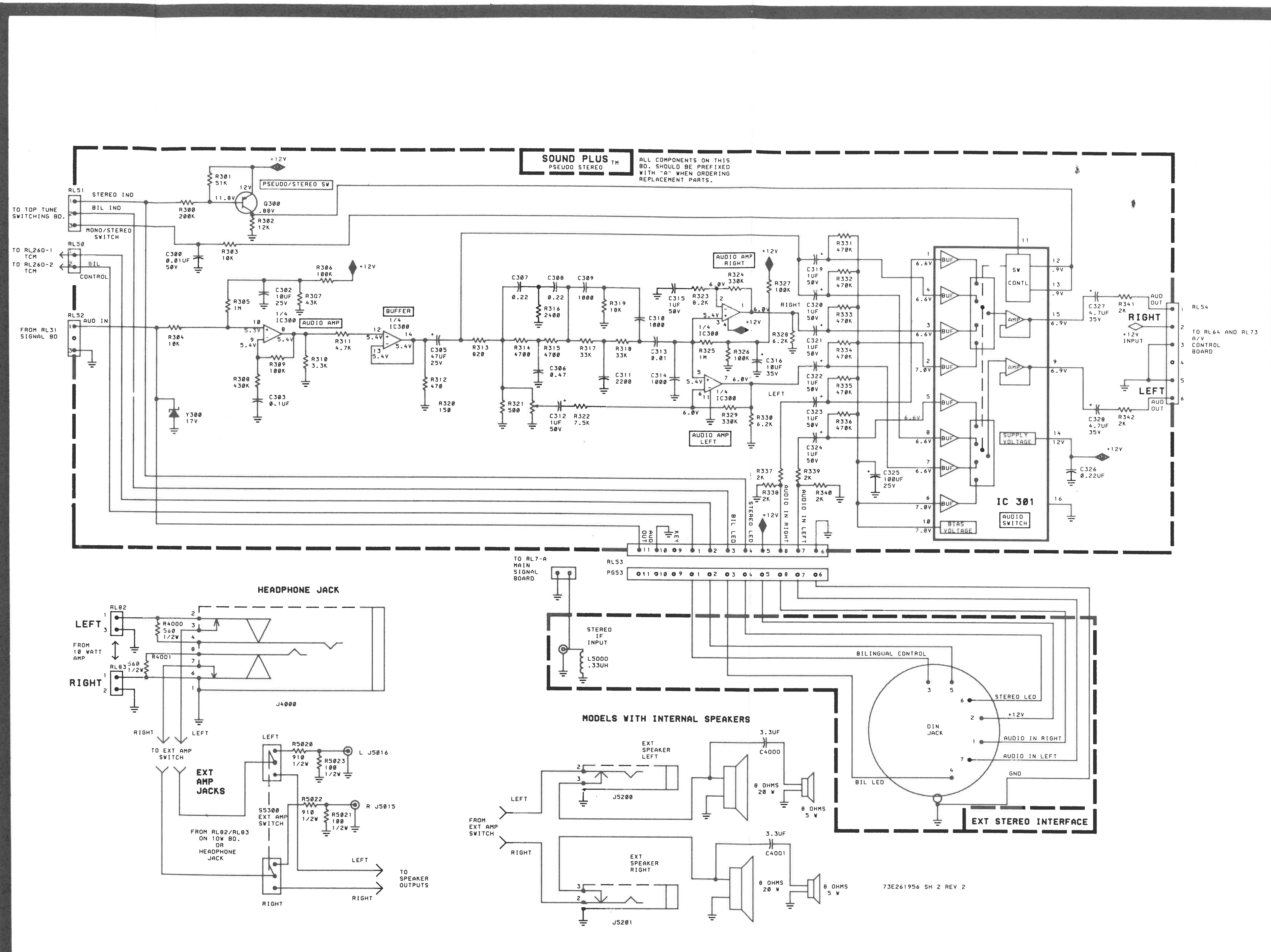


PM CHASSIS – PSEUDO STEREO "SOUND PLUS" BOARD AND I



† R203 AND R213 ARE CLIPPED IN 5 WATT MODELS.

TUNE SWITCHING BD. SCHEMATIC DIAGRAMS



73E261919—2

PM CHASSIS – PSEUDO STEREO "SOUND PLUS" BOARD AND EXTERNAL STEREO INTERFACE SCHEMATIC DIAGRAMS

MAIN CHASSIS PARTS LIST (CONT.)

AUDIO CIRCUIT BOARD (CONT.)

Q194	EP15X88	DRIVER-NPN, Silicon
Q195	EP15X222	POWER OUTPUT-PNP, Silicon
Q196	EP15X221	POWER OUTPUT-NPN, Silicon
Y111	ES16X27	Silicon

POWER SUPPLY CIRCUIT BOARD

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
* C901	EP25X147	.luf, 10%, 125V, Polyester

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
* R901	EP14X357	1 ohm, 10%, 5W, Wirewound
* R902	EP14X357	1 ohm, 10%, 5W, Wirewound
R903	EP14X105	100K ohm, 5%, 1/2W, Carbon
* R904	EP14X330	THERMISTOR
R905	EP14X268	22 ohm, 5%, 1/2W, Carbon
* R906	EP14X323	6.8K ohm, 5%, 3W, Flame Proof
R907	EP14X354	.39 ohm, 5%, 2W, Metal Oxide
R908	EP14X105	100K ohm, 5%, 1/4W, Carbon
* R909	EP14X355	200 ohm, 1%, 1/4W, Metal Film
* R910	EP14X359	1.21K ohm, 1%, 1/4W, Carbon
* R911	Common	12K ohm, 5%, 1/4W, Carbon
* R913	ES14X103	10K ohm, 5%, 1/4W, Carbon
R914	EP14X103	10K ohm, 5%, 1/4W, Carbon
R916	Common	110K ohm, 5%, 1/2W, Carbon
* R917	EP14X358	7.5 ohm, 5%, 5W, Wirewound
R918	EP14X356	100 ohm, 5%, 2W, Metal Oxide
R920	ES14X71	1K ohm, 5%, 1/4W, Carbon

INTEGRATED CIRCUIT

REF. NO.	PART NO.	DESCRIPTION
* IC901	EP84X233	SWITCHING POWER SUPPLY REGULATOR

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q901	EP15X223	SWITCHING-NPN, Silicon
Q902	EP15X224	TRIAC BI DIRECTIONAL TRIODE THYRISTOR

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y901	EP57X4	Rectifier
Y902	EP57X4	Rectifier
Y903	EP57X4	Rectifier
Y904	EP57X4	Rectifier
Y905	EP57X4	Rectifier
Y907	EP57X5	Rectifier
Y908	EU16X11	Silicon
Y909	EU16X11	Silicon
Y910	EP57X5	Rectifier
* Y911	EP16X156	Zener, 27V
Y912	EP57X5	Rectifier
Y913	EP57X5	Rectifier
Y914	EP16X74	Zener, 4.3V
Y937	EP57X5	Rectifier

COILS

REF. NO	PART NO.	DESCRIPTION
* L901	EP36X464	CHOKE-Line Filter
* L902	EP36X465	CHOKE-Filament, 2.2uh

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
FB901	EP12X6	BEAD-Shield
FB903	EP12X2	BEAD-Shield
	EP3X7	CLIP-Fuse (4 Used)
*	EP66X19	CORD-AC Power, Polarized
* F901	EP10X19	FUSE-4amp, 250V, Fast Acting, Snap-In
* F902	EP10X21	FUSE-2.5amp, 250V, Fast Acting, Snap-In (10 Watt Units)
* F902	EP10X4	FUSE-3amp, 250V, Fast Acting, Snap-In (2 Watt Units)

19" AND 25" PM CHASSIS PARTIAL REPLACEMENT PARTS LIST FOR OPTIONAL FEATURES

VIR CIRCUIT BOARD (EP93X462)

INTEGRATED CIRCUIT

REF. NO.	PART NO.	DESCRIPTION
ICV10	EP84X60	MONO

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
QV10	EP15X88	NPN, Silicon
QV11	EP15X88	NPN, Silicon
QV12	EP15X88	NPN, Silicon
QV13	EP15X88	NPN, Silicon
QV14	EP15X88	NPN, Silicon
QV15	EP15X48	PNP, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
YV10	EU16X11	Silicon
YV11	EU16X11	Silicon
YV12	EU16X11	Silicon
YV13	EU16X11	Silicon
YV14	EU16X11	Silicon
YV15	EP16X19	Zener

COIL

REF. NO	PART NO.	DESCRIPTION
LV50	EP36X33	CHOKE-56uh, 5%

AUDIO/VIDEO CIRCUIT BOARD (EP93X436)

INTEGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
AIC1	EP84X143	AUDIO SWITCHING
AIC2	EP84X229	AUDIO CONTROL
AIC3	EP84X228	VIDEO SWITCH
AIC4	EP84X217	3 TERMINAL VOL REG.

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
AQ1	ES15X90	LATCHING-PNP, Silicon
AQ2	EP15X86	SWITCH CONTROL-NPN, Silicon
AQ4	ES15X90	LATCHING-PNP, Silicon
AQ5	EP15X86	SWITCH CONTROL-NPN, Silicon
AQ7	ES15X90	LATCHING-PNP, Silicon
AQ8	EP15X86	SWITCH CONTROL-NPN, Silicon
AQ10	EP15X86	DISP DRIVER-NPN, Silicon
AQ11	EP15X86	DISP DRIVER-NPN, Silicon
AQ12	EP15X86	DISP DRIVER-NPN, Silicon
AQ13	EP15X86	CH DISP KILLER-NPN, Silicon
AQ14	EP15X86	EXT. VIDEO CONTROL-NPN, Silicon
AQ15	EP15X86	EXT. AMP-NPN, Silicon
AQ16	EP15X86	EXT. AMP-NPN, Silicon
AQ20	EP15X86	MUTE-NPN, Silicon
AQ21	EP15X86	AUDIO BUFFER RIGHT-NPN, Silicon
AQ22	EP15X86	AUDIO BUFFER LEFT-NPN, Silicon
AQ23	EP15X86	MUTE-NPN, Silicon
AQ25	EP15X86	LOUDNESS-NPN, Silicon
AQ26	EP15X86	VOL. CONTROL-NPN, Silicon
AQ33	ES15X90	CH DISP CONTROL-PNP, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
AY1	EP57X4	Rectifier
AY2	EP57X4	Rectifier
AY3	EP57X4	Rectifier
AY4	EP57X4	Rectifier
AY5	EP57X4	Rectifier
AY6	ES16X27	Silicon
AY7	ES16X27	Silicon
AY8	ES16X27	Silicon
AY9	ES16X27	Silicon

AUDIO/VIDEO CIRCUIT BOARD (CONT.)

AY12	EP57X4	Rectifier
AY13	EP57X4	Rectifier
AY14	EP57X4	Rectifier
AY15	EP57X4	Rectifier
AY16	EP57X4	Rectifier
AY17	EP57X4	Rectifier
AY20	ES16X27	Silicon
AY21	ES16X27	Silicon
AY22	ES16X27	Silicon
AY23	ES16X27	Silicon
AY24	ES16X27	Silicon
AY26	ES16X27	Silicon
AY27	ES16X27	Silicon
AY29	ES16X27	Silicon
AY30	ES16X27	Silicon
AY31	ES16X27	Silicon
AY32	ES16X27	Silicon
AY33	ES16X27	Silicon
AY34	ES16X27	Silicon
AY35	ES16X27	Silicon
AY36	EP57X4	Rectifier
AY37	EP57X4	Rectifier
AY51	EP16X58	Zener
AY52	EP16X58	Zener
AY53	EP16X58	Zener
AY54	EP16X19	Zener, 1W
AY58	EP16X58	Zener
AY59	EP16X58	Zener
AY60	EP16X58	Zener
AY70	EP16X19	Zener, 1W

DUAL 10 WATT (5 WATT) AUDIO CIRCUIT BD. (EP93X437)

INTEGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
AIC200	EP84X109	AUDIO POWER AMP
AIC201	EP84X109	AUDIO POWER AMP

DIODES

REF. NO.	PART NO.	DESCRIPTION
AY200	EP16X58	Zener
AY201	EP16X148	Zener
AY210	EP16X58	Zener
AY211	EP16X148	Zener

SOUND PLUS CIRCUIT BOARD (EP93X438)

INTEGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
AIC300	EP84X119	DL & QD DP AMP
AIC301	EP84X143	AUDIO SWITCH

TRANSISTOR

REF. NO.	PART NO.	DESCRIPTION
AQ300	ES15X90	AUDIO STEREO SWITCH-PNP, Silicon

DIODE

REF. NO.	PART NO.	DESCRIPTION
AY300	EP16X58	Zener

TOP TUNING CIRCUIT BOARD (EP93X489)

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y4001	EP41X14	STEREO INDICATOR-Red
Y4002	EP41X14	BILINGUAL-Red
Y4003	EP41X14	VIR-Red
Y4004	ES16X27	Silicon

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN COMPONENT REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. THE (*) BESIDE A PART IN THE PARTS LIST AND THE SHADED AREAS OF THE SCHEMATIC DIAGRAM DESIGNATES COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE. IT IS PARTICULARLY RECOMMENDED THAT EXACT CATALOGED PARTS BE USED FOR REPLACEMENT OF COMPONENTS WHICH ARE DESIGNATED BY A (*) IN THE PARTS LIST AND THE SHADED AREAS ON THE SCHEMATIC DIAGRAM. USE OF SUBSTITUTE REPLACEMENT PARTS WHICH DO NOT HAVE THE SAME SAFETY CHARACTERISTICS AS RECOMMENDED IN FACTORY SERVICE INFORMATION MAY CREATE SHOCK, FIRE OR OTHER HAZARDS, OR EXCESSIVE X-RADIATION.

AUDIO/VIDEO SWITCHING

This circuitry is used in models that have two sets of audio and video jacks and use either a 5 or 10 watt per channel stereo amplifier. It provides selection between the two independent external audio and video inputs at the rear jack panel or off-the-air TV signals.

It also provides volume, balance, tone, and loudness control of the two audio channels which drive the stereo amplifier stages on the 5 or 10 watt stereo module.

It alters the channel readout to indicate when an external signal mode is being used. The readout indicates "P1" when VIDEO position 1 has been selected and "P2" for VIDEO position 2.

Finally, it provides a low level audio output which is not affected by tone, volume, or balance controls. This output can be used for recording or to drive external amplifiers.

The audio section of the audio/video switching board consists of an audio switch (IC1), a tone, volume and balance control (IC2), buffer amplifiers (Q21 and Q22) to drive the stereo amplifier board, and low level amplifiers (Q15 and Q16) with output to the rear jack panel. Audio enters IC1 from the internal Sound Plus TM (simulated stereo) module or from one of the two sets of audio input jacks on the rear jack panel. See figure 1.

The desired input is selected by momentarily switching +12 volts (developed by IC4) to pin 1, 2 or 3 of PG/RL65 which are the inputs to a latching network. Applying 12 volts to pin 1 activates Q7 and Q8, the latching transistors, for selection of "Video 2" audio and video inputs. Similarly, Q4 and Q5 are used for "Video 1" audio and video inputs and Q1 and Q2 are used for off-the-air audio and video. When one latch is activated, the diode matrix releases the latch on the previously selected input. It also automatically latches off-the-air audio and video when the set is first turned "on".

The output of IC2 drives emitter followers formed by Q21 and Q22. These transistors are the output drivers for the stereo amplifier module. The transistors Q20 and Q23 provide muting of transient spikes that would otherwise be audible when the set is turned on.

IC2 also contains volume, tone, balance and loudness circuitry. Transistors Q15 and Q16 form common emitter amplifiers which supply a constant audio output to the rear jack panel for use by the customer's stereo equipment.

The same latching network used for the audio section (Q1 through Q8 and associated diodes) also controls the output of IC3 which is a video switch/amplifier. The input to IC3 is a 1V p-p video signal arriving from the 75 ohm video input jacks on the rear jack panel. Video 1 appears on pin 4 and Video 2 on pin 8 of IC3.

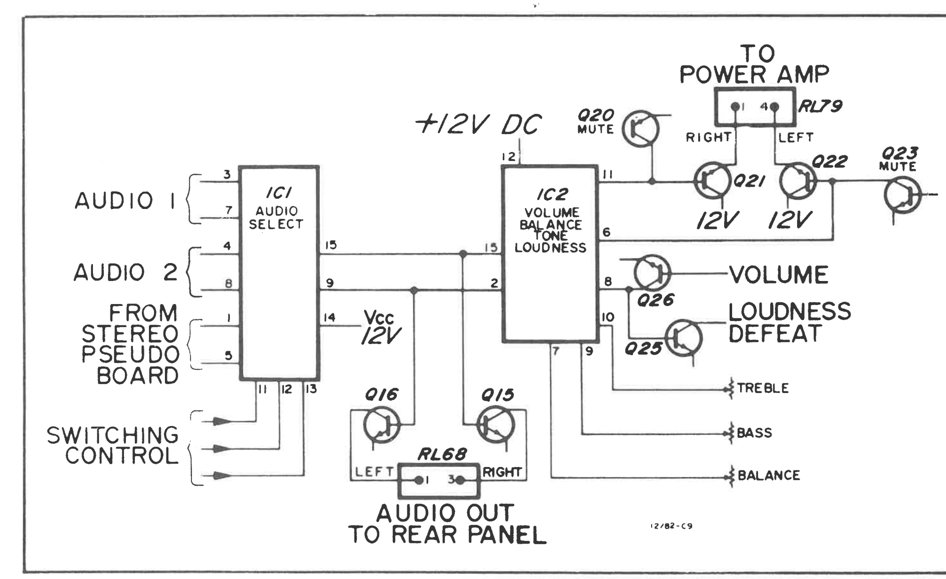


FIGURE 1 – BLOCK DIAGRAM AUDIO SECTION. IC1 and IC2 and their associated circuitry switch and process audio signals.

19" AND 25" PM CHASSIS CIRCUIT DESCRIPTION OF AUDIO/VIDEO SWITCHING AND SOUND PLUS™ (SIMULATED STEREO) OPTIONS

AUDIO/VIDEO SWITCHING

This circuitry is used in models that have two sets of audio and video jacks and use either a 5 or 10 watt per channel stereo amplifier. It provides selection between the two independent external audio and video inputs at the rear jack panel or off-the-air TV signals.

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It alters the channel readout to indicate when an external signal mode is being used. The readout indicates "P1" when VIDEO position 1 has been selected and "P2" for VIDEO position 2.

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The output of IC2 drives emitter followers formed by Q21 and Q22. These transistors are the output drivers for the stereo amplifier module. The transistors Q20 and Q23 provide muting of transient spikes that would otherwise be audible when the set is turned on.

IC2 also contains volume, tone, balance and loudness circuitry. Transistors Q15 and Q16 form common emitter amplifiers which supply a constant audio output to the rear jack panel for use by the customer's stereo equipment.

The same latching network used for the audio section (Q1 through Q8 and associated diodes) also controls the output of IC3 which is a video switch/amplifier. The input to IC3 is a 1V p-p video signal arriving from the 75 ohm video input jacks on the rear jack panel. Video 1 appears on pin 4 and Video 2 on pin 8 of IC3.

When the set is turned on, pins 11, 12 and 13 of IC1 are high. Diode Y706 blocks the DC and places a low on pin 3 of IC3. This would normally place a video input from the rear jack pack into the video signal path. However, the control switch to the signal board, Q14, is inactive and all external inputs will be ignored. Therefore, off-air video and audio is selected.

Pressing the momentary contact switch for Video 1 places +12 volts on the video/audio input select circuit. The latching network then places a "high" at pin 11 of IC1 (pins 12 & 13 low). A "high" is also placed at pin 3 of IC3 and Video 1 input will be selected. Also, Q14 will be activated which will cause the signal board to accept external inputs. The video signal is amplified inside IC3 and appears at pin 1 of RL69. When Video 2 is pressed, a "high" is latched and placed on pin 13 of IC1 (selecting Audio 2 sound). Now there is a low on pin 2 of IC3 which selects the video 2 signal at pin 8 of the IC. A 1.0 Vp-p signal will appear at pin 1 of RL69. Although RL69 is on the board, the leads from PG69 go to an "in-line" connector. The leads from it are soldered to the main signal board. The IC3 video output connects to W23, and ground to W22 on this board. Figure 3 is the block diagram and figure 4 is a simplified schematic of this circuitry. Q14 is normally biased off when using an off the air TV signal. The collector of Q14 is tied to W26 and the emitter to W27 on the signal board. When Q14 is biased "on", a "high" is applied to the base of Q107 which turns "on". This shorts the off-the-air video signal to ground. W26 (collector of Q14) is connected to a voltage divider, R144 and R142. When Q14 conducts, the voltage drop between the two resistors biases Q112 on. When Q112 is "on", Q116 is biased "off". Q116 is used during TV signal operation to completely turn off Q112. When Q116 is "on", it completely suppresses any output from the Audio/Video switching circuitry. When it is "off", external video signals at W23 are applied to the emitter of Q112 which is "on". The restored signal is DC coupled from the collector of Q112 to the video buffer Q114, which is an emitter follower. Composite video at 1.5 Vp-p is present at the emitter of Q114 when external video is selected, whereas, the 1.5 Vp-p composite off-air video is present at the emitter of Q110. Q118 is used as a low impedance buffer to provide 1 Vp-p video to the video output jack on the rear of the set via W20.

Some PM chassis receivers are built with only one external video and audio input jack. These models have no need for the complex audio/video switching circuitry just explained. Rather, they will use conventional slide switches to manipulate their video and audio signals. S4200 selects either off-the-air or external video and audio. S4010 controls the selection of audio signal routing to the receiver's internal amplifier or audio output jack.

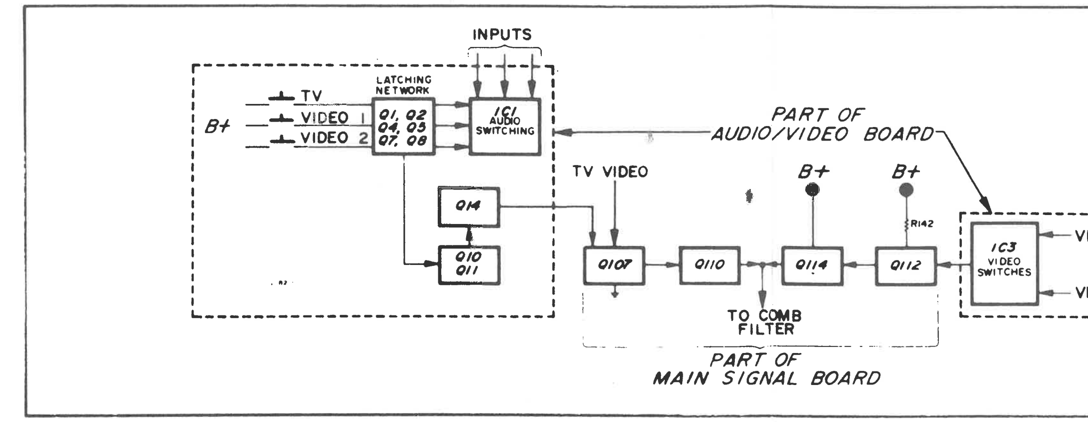


FIGURE 3 – BLOCK DIAGRAM VIDEO SECTION. Part of the video switching circuitry (Q107, Q1… located on the main signal board.

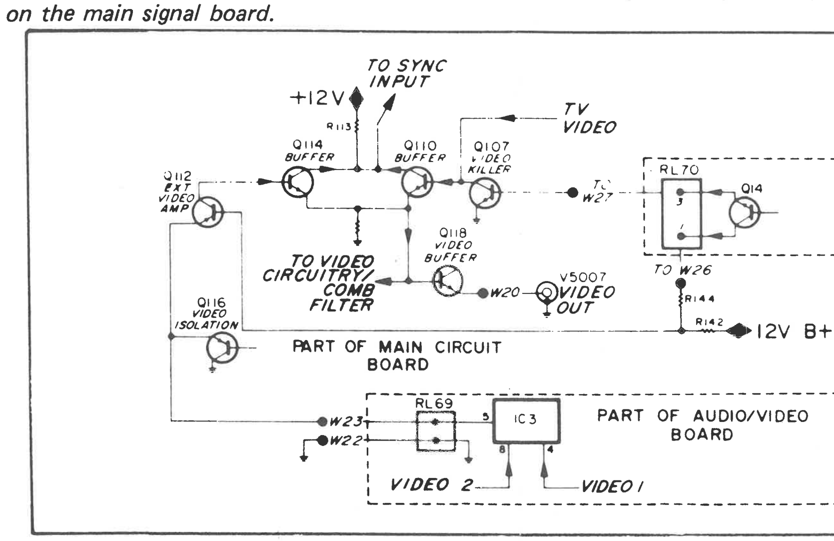


FIGURE 4 – SIMPLIFIED SCHEMATIC VIDEO SECTION.

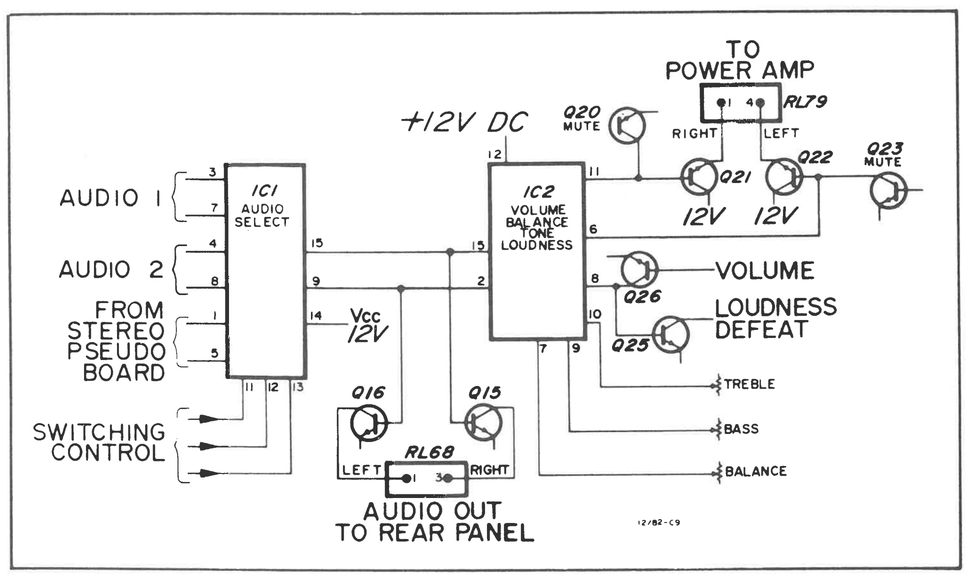


FIGURE 1 – BLOCK DIAGRAM AUDIO SECTION. IC1 and IC2 and their associated circuitry switch and process audio signals.

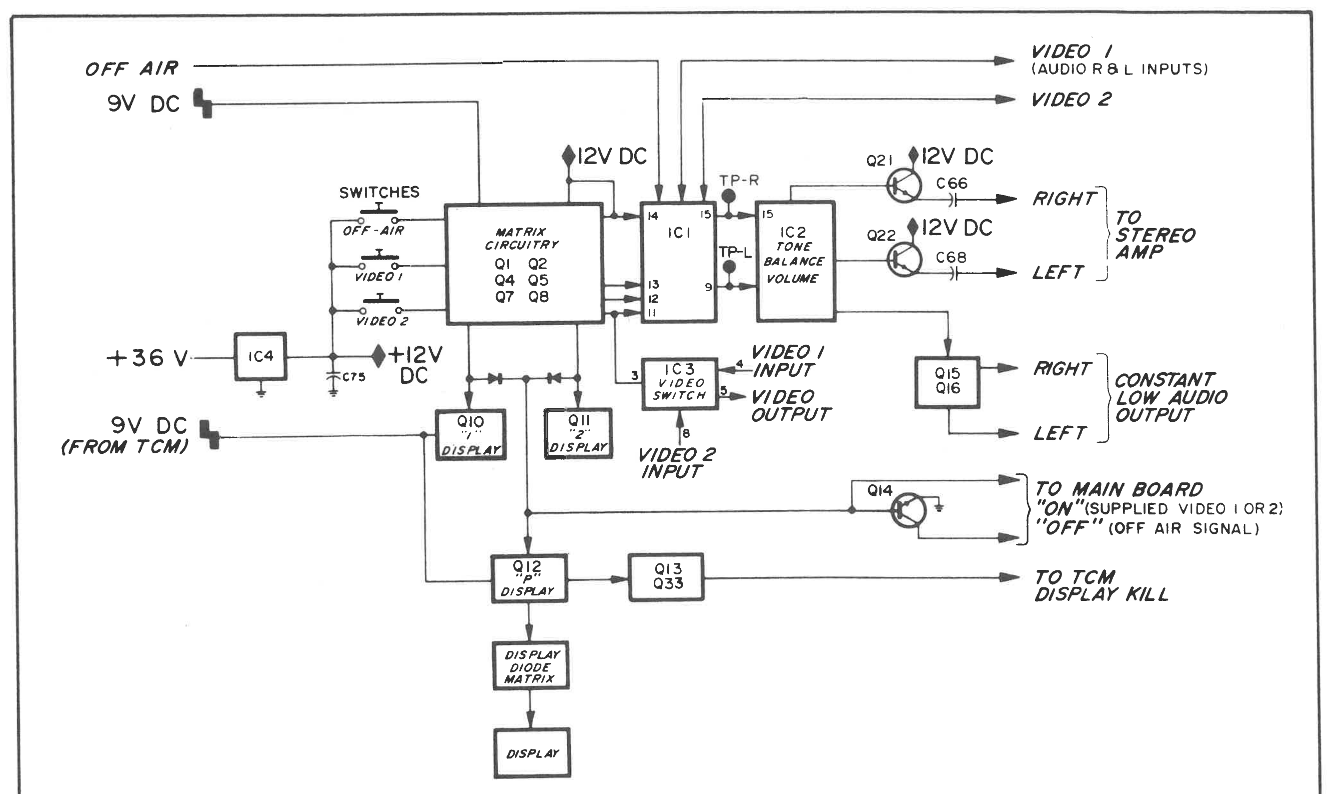


FIGURE 2 – BLOCK DIAGRAM AUDIO/VIDEO SWITCHING.

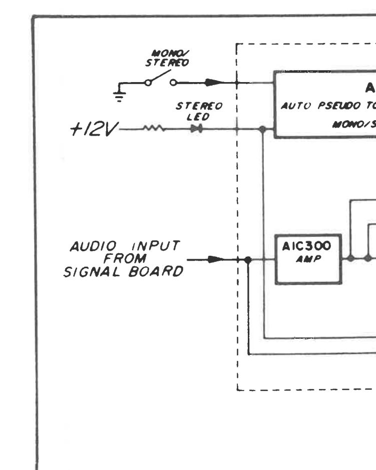


FIGURE 5 – BLOCK DIAGRAM … stereo circuitry is used to …

25" PM CHASSIS CIRCUIT DESCRIPTION OF AUDIO/VIDEO SWITCHING AND SOUND PLUS^{TM} (SIMULATED STEREO) OPTIONS

et is turned on, pins 11, 12 and 13 h. Diode Y706 blocks the DC and n pin 3 of IC3. This would normally input from the rear jack pack into nal path. However, the control signal board, Q14, is inactive and nputs will be ignored. Therefore, nd audio is selected.

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Some PM chassis receivers are built with only one external video and audio input jack. These models have no need for the complex audio/video switching circuitry just explained. Rather, they will use conventional slide switches to manipulate their video and audio signals. S4200 selects either off-the-air or external video and audio. S4010 controls the selection of audio signal routing to the receiver's internal amplifier or audio output jack.

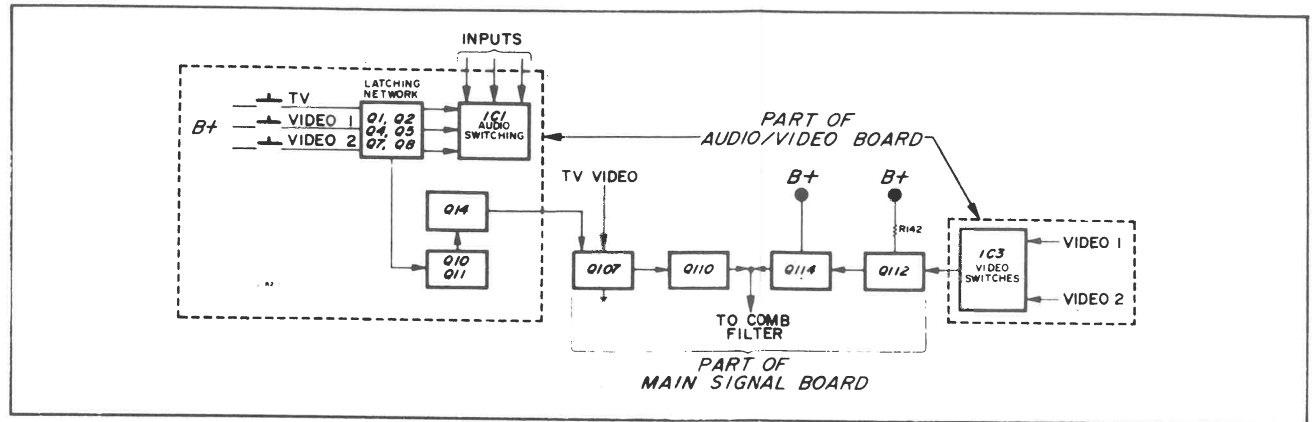


FIGURE 3 – BLOCK DIAGRAM VIDEO SECTION. Part of the video switching circuitry (Q107, Q110, Q112, Q116) is located on the main signal board.

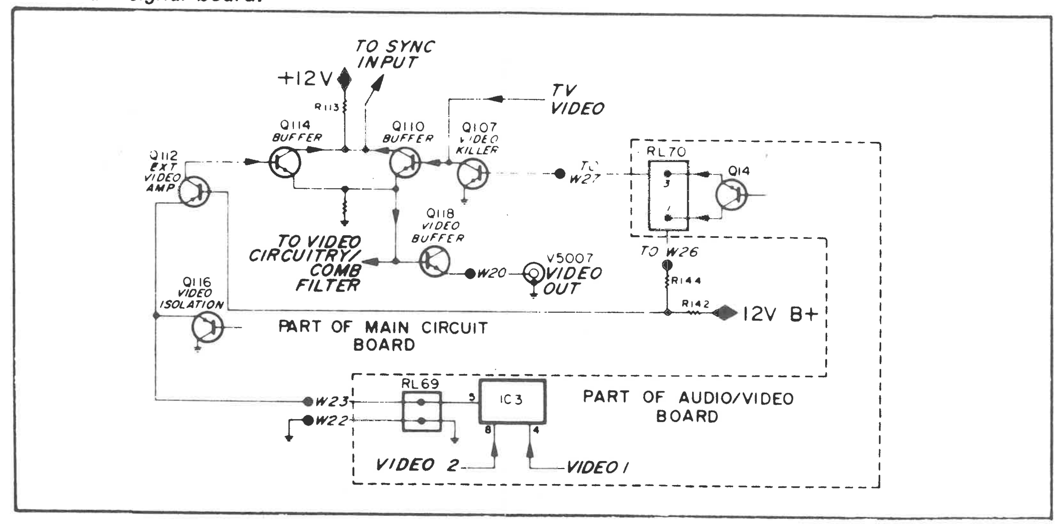


FIGURE 4 – SIMPLIFIED SCHEMATIC VIDEO SECTION.

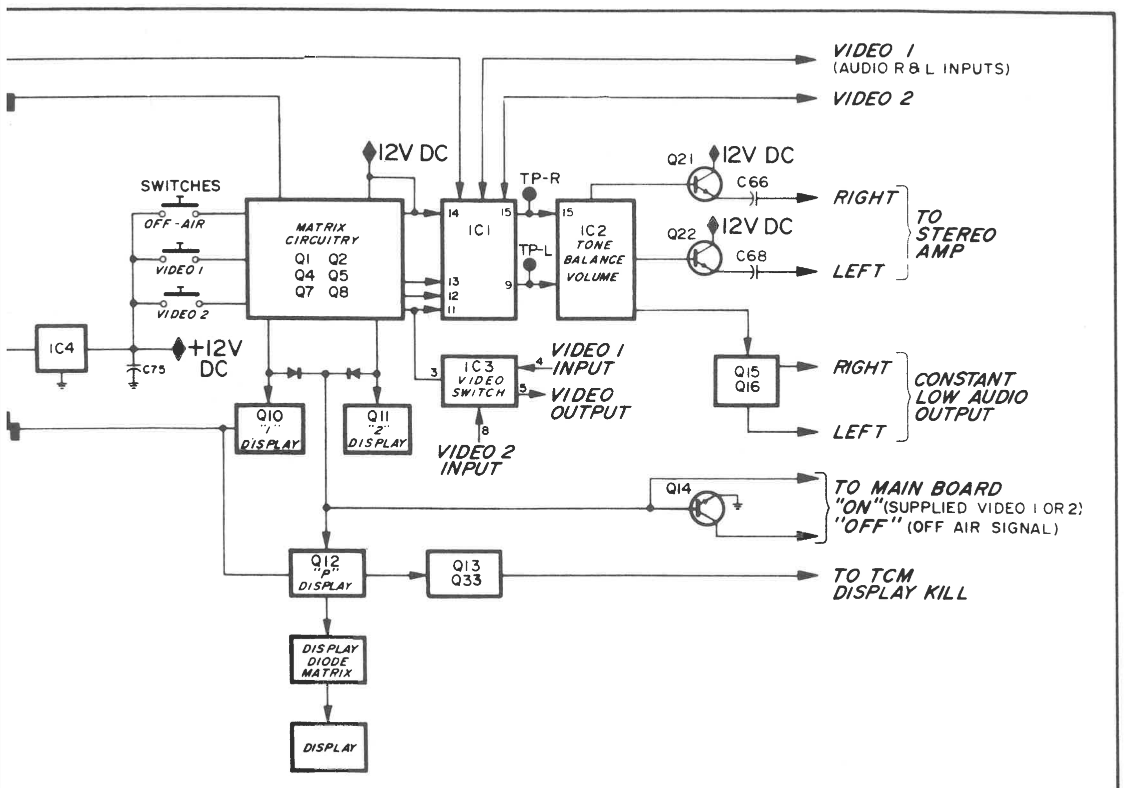


FIGURE 2 – BLOCK DIAGRAM AUDIO/VIDEO SWITCHING.

SOUND PLUS™ SIMULATED STEREO

The function of the simulated (pseudo) stereo circuitry is to create the stereo effect in a monaural audio signal by means of filtering. This filtering creates 5 "bands": 3 in the right channel and 2 in the left channel. Refer to figure 5.

The 4.5 MHz detector signal output is connected to RL52-1. The signal is divided and sent to RL53 and the external stereo interface jack for possible use with an external stereo decoder. It is also connected to an internal operational amplifier, AIC300. The op amp acts as a buffer for the de-emphasized audio. This audio is then passed through another buffer stage and into the filtering circuit.

The filters consist of two sequential twin T networks. They introduce a low and high frequency notch in the right channel output. By feeding the input of the filter network into the (-) terminal of an op amp and the filter output into the (+) terminal, a response is obtained that is the "inverse" of the right channel. In other words, when a peak occurs in the right channel response, a null occurs in the left channel. This effectively divides the output into 5 "bands". The output of the right and left channel op amps are fed into the switching IC (AIC301). Voice frequencies pass through both channels equally because they occur primarily in the areas where the response of both channels is nearly the same.

AIC301 is a quad, dual channel audio switch. Its inputs are from the filtering network, the external stereo decoder (if used), and the de-emphasized audio before filtering. If the mono/stereo switch is moved to the mono position, the output is always a normal, de-emphasized monaural signal. If the switch is in the stereo position, then simulated stereo is selected. However, if at some time the external decoder senses a pilot carrier, then AQ300 automatically switches the simulated stereo out and the true stereo in. The output at RL54 is applied to the audio/video switching circuitry prior to being amplified.

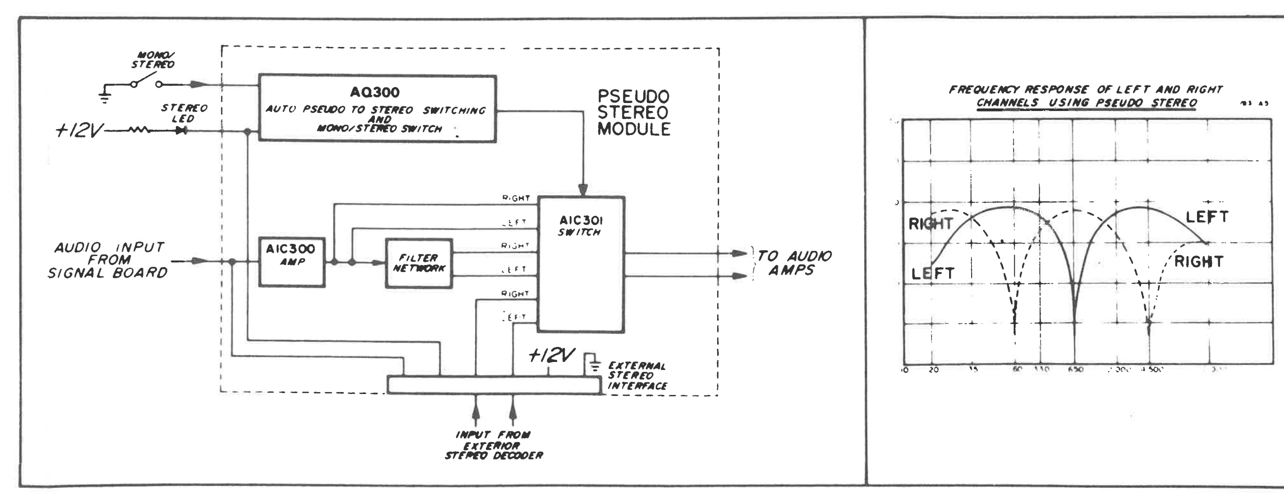


FIGURE 5 – BLOCK DIAGRAM SIMULATED STEREO STAGES AND RESPONSE CURVES. Simulated (or pseudo) stereo circuitry is used to create the stereo effect in a monaural audio signal.

19" AND 25" PM—B CHASSIS PARTIAL REPLACEMENT PARTS LIST

CIRCUIT BOARD ASSEMBLIES

PART NO.	DESCRIPTION
EP93X439	AUDIO CIRCUIT BOARD (2 Watt Units)
EP93X436	AUDIO/VIDEO CIRCUIT BOARD (10 Watt Units)
EP93X435	COMB FILTER CIRCUIT BOARD
EP93X437	DUAL 10 WATT AUDIO CIRCUIT BOARD (10 Watt & 5 Watt Units)
EP93X425	HORIZ HEAT SINK CIRCUIT BOARD (19")
EP93X426	HORIZ HEAT SINK CIRCUIT BOARD (25")
EP93X430	POWER SUPPLY CIRCUIT BOARD (2 Watt Units)
EP93X431	POWER SUPPLY CIRCUIT BOARD (10 Watt Units)
EP93X432	RGB CIRCUIT BOARD(19")
EP93X433	RGB CIRCUIT BOARD (25")
EP93X427	SIGNAL CIRCUIT BOARD
EP93X520	SWEEP CIRCUIT BOARD (19")
EP93X521	SWEEP CIRCUIT BOARD (25")
EP93X462	VIR CIRCUIT BOARD
EP41X144	LIGHT DEPENDENT RESISTOR BD.

CHASSIS PARTS NOT ON CIRCUIT BOARDS

REF. NO.	PART NO.	DESCRIPTION
	CAPACITORS	
* C940	EP25X184	4700pf, 20%, 125VAC, Polyester
* C941	EP25X184	4700pf, 20%, 125VAC, Polyester
	RESISTORS	
* R929	EP14X365	1.8 meg ohm, 10%, 1/2W, Carbon
* R930	EP14X365	1.8 meg ohm, 10%, 1/2W, Carbon
	COILS & TRANSFORMER	
	* EP76X30	YOKE ASM
	* EP76X33	YOKE ASM(25")
* L1901	EP36X462	COIL-Degaussing
* L1901	EP36X469	COIL-Degaussing(25")
	* EP66X19	CORD-AC Power, Polarized

SIGNAL CIRCUIT BOARD

REF. NO.	PART NO.	DESCRIPTION
* R196	Common	10 ohm, 5%, 1/8W, Carbon
* R503	EP14X351	1.5K ohm, 5%, 2W, Metal Oxide
* R645	EP14X102	560 ohm, 5%, 1W, Metal Oxide
* R647	EP14X230	1.5K ohm, 5%, 3W, Flame Proof
* R935	EP14X361	1.8K ohm, 5%, 1/4W, Carbon
* R935A	EP14X260	15K ohm, 5%, 1/4W, Carbon (25")
* R990	EP14X329	200 ohm, 5%, 1/2W, Carbon (25")
* R990A	Common	120 ohm, 5%, 1/2W, Carbon (19")
	* EP62X167	HVSD-Thick Film

RGB CIRCUIT BOARD

REF. NO.	PART NO.	DESCRIPTION
* R411	EP14X183	3.3K ohm, 5%, 1/2W, Carbon
* R413	EP14X183	3.3K ohm, 5%, 1/2W, Carbon
* R415	EP14X183	3.3K ohm, 5%, 1/2W, Carbon
* R419	EP14X183	3.3K ohm, 5%, 1/4W, Carbon
* R424	EP14X187	100 ohm, 5%, 1/8W, Carbon
* R426	EP14X187	100 ohm, 5%, 1/8W, Carbon
* R428	ES14X70	100 ohm, 5%, 1/8W, Carbon
* R434	EP14X329	200 ohm, 5%, 1/8W, Carbon
* R436	EP14X329	200 ohm, 5%, 1/8W, Carbon
* R438	EP14X329	200 ohm, 5%, 1/8W, Carbon
* R464	ES14X64	2K ohm, 5%, 1/8W, Carbon
* R466	ES14X64	2K ohm, 5%, 1/8W, Carbon
* R468	ES14X64	2K ohm, 5%, 1/8W, Carbon
* R484	EP14X231	12K ohm, 5%, 2W, Metal Oxide
* R486	EP14X231	12K ohm, 5%, 2W, Metal Oxide
* R488	EP14X231	12K ohm, 5%, 2W, Metal Oxide
	* EP34X69	SOCKET-CRT

SWEEP CIRCUIT BOARD

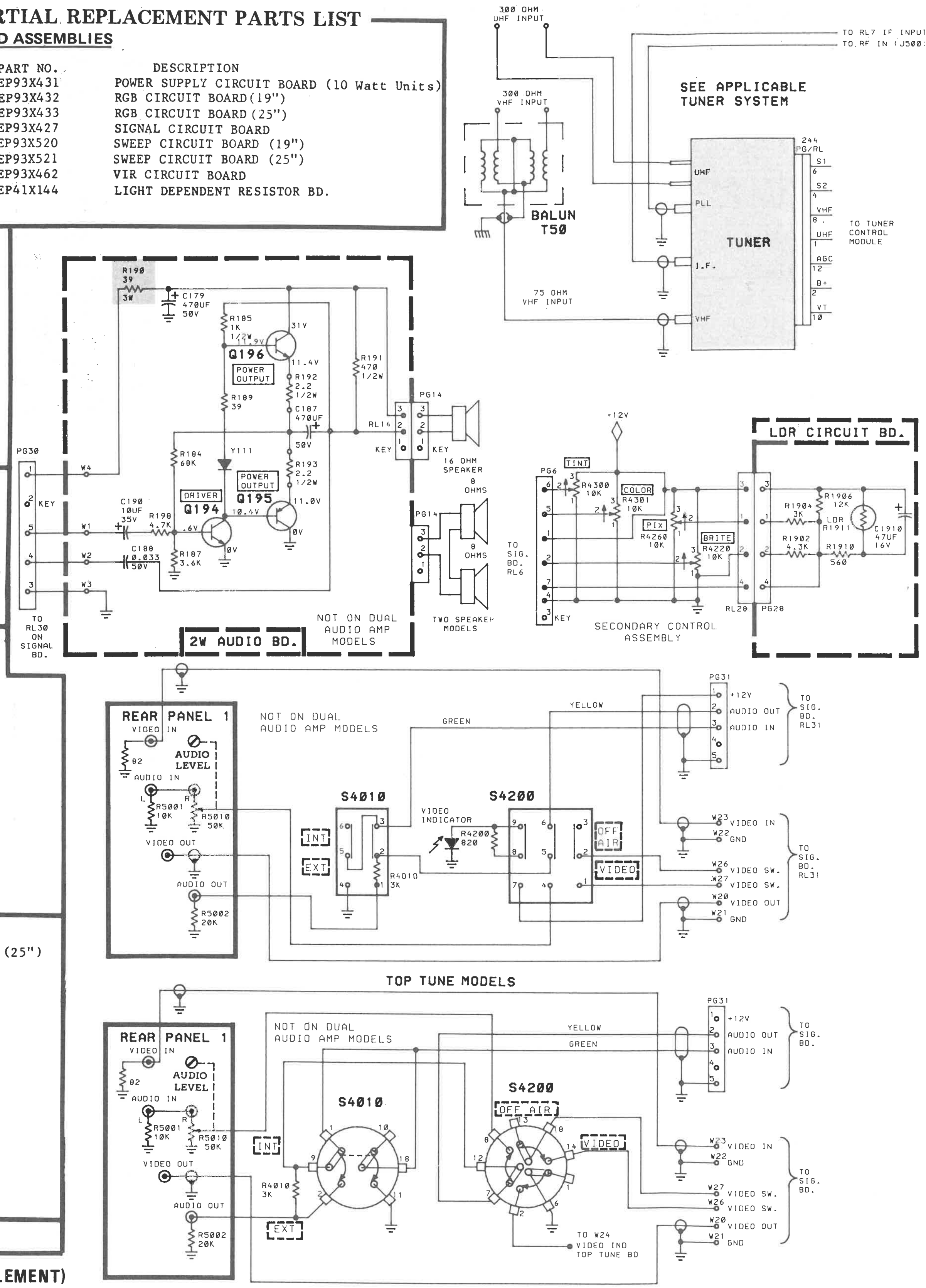
REF. NO.	PART NO.	DESCRIPTION
* C705	EP25X179	.03uf, 5%, 200V Polypronpylene
* C705	EP25X180	.027uf, 5%, 200V Polypronpylene (25")
* R707	EP14X351	1.5K ohm, 5%, 2W, Metal Oxide
* R709	EP14X352	3 ohm, 10%, 7W, Wirewound
* MOV901	EP14X353	VARISTOR-Metal Oxide
* R930	EP14X350	330K ohm, 5%, 2W, Metal Oxide
* R931	ES14X80	2.2 ohm, 5%, 1/2W, Carbon
* R932	EP14X347	1K ohm, 5%, 1W, Metal Oxide
* R933	ES14X80	2.2 ohm, 5%, 1/2W, Carbon
* R934	ES14X79	1 ohm, 5%, 1/2W, Carbon
* R937	EP14X187	100 ohm, 5%, 1/2W, Carbon
* R940	EP14X363	6.8K ohm, 5%, 1/8W, Carbon
* R941	EP14X363	6.8K ohm, 5%, 1/8W, Carbon
* R956	ES14X80	2.2 ohm, 5%, 1/2W, Carbon
* L703	EP36X463	CHOKE-15uh
* T701	EP77X61	TRANSFORMER-H.V.
* T701	EP77X62	TRANSFORMER-H.V.(25")
* T901	EP88X44	TRANSFORMER-Low Voltage Power

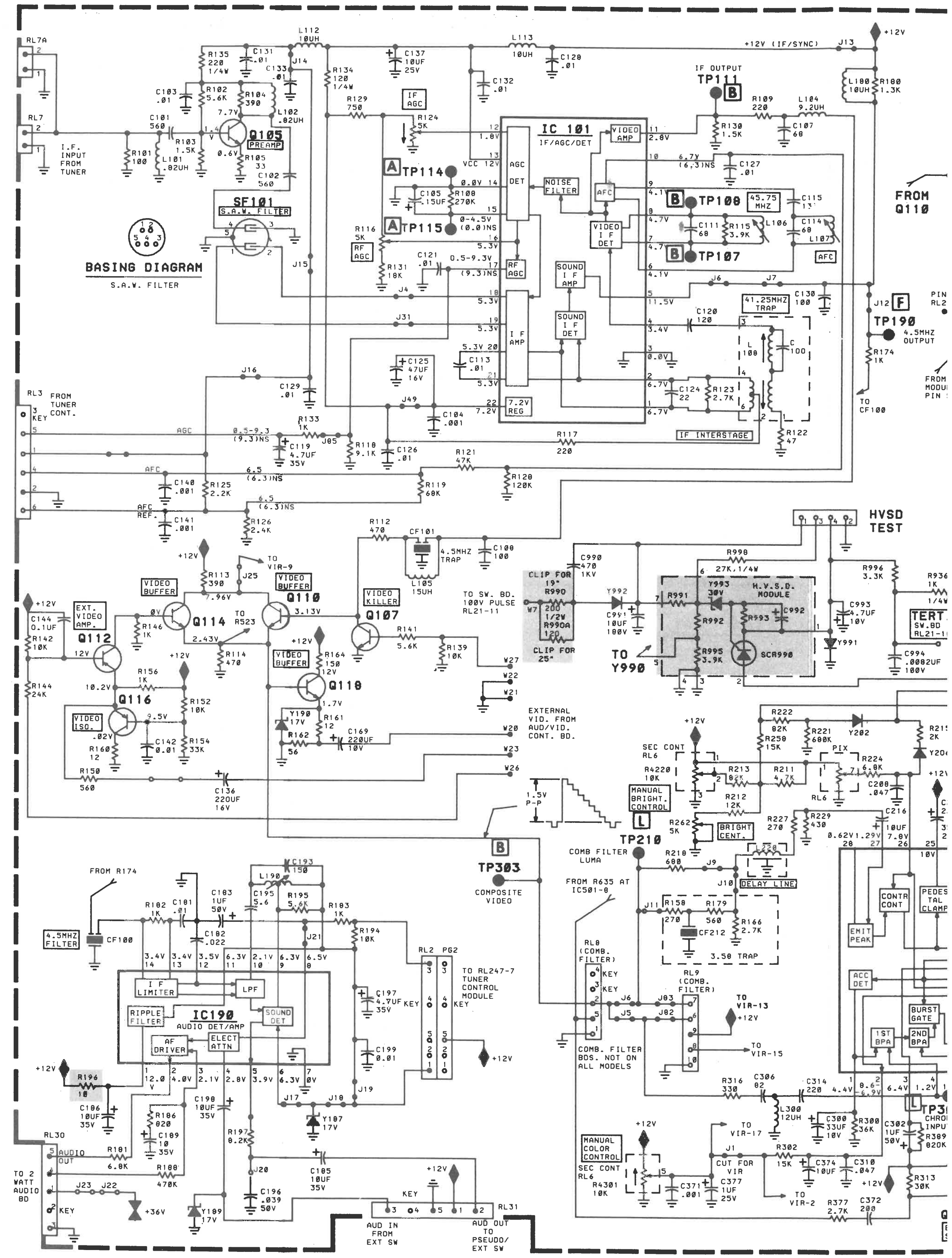
AUDIO CIRCUIT BOARD

REF. NO.	PART NO.	DESCRIPTION
* R190	EP14X342	39 ohm, 10%, 3W, Flame Proof

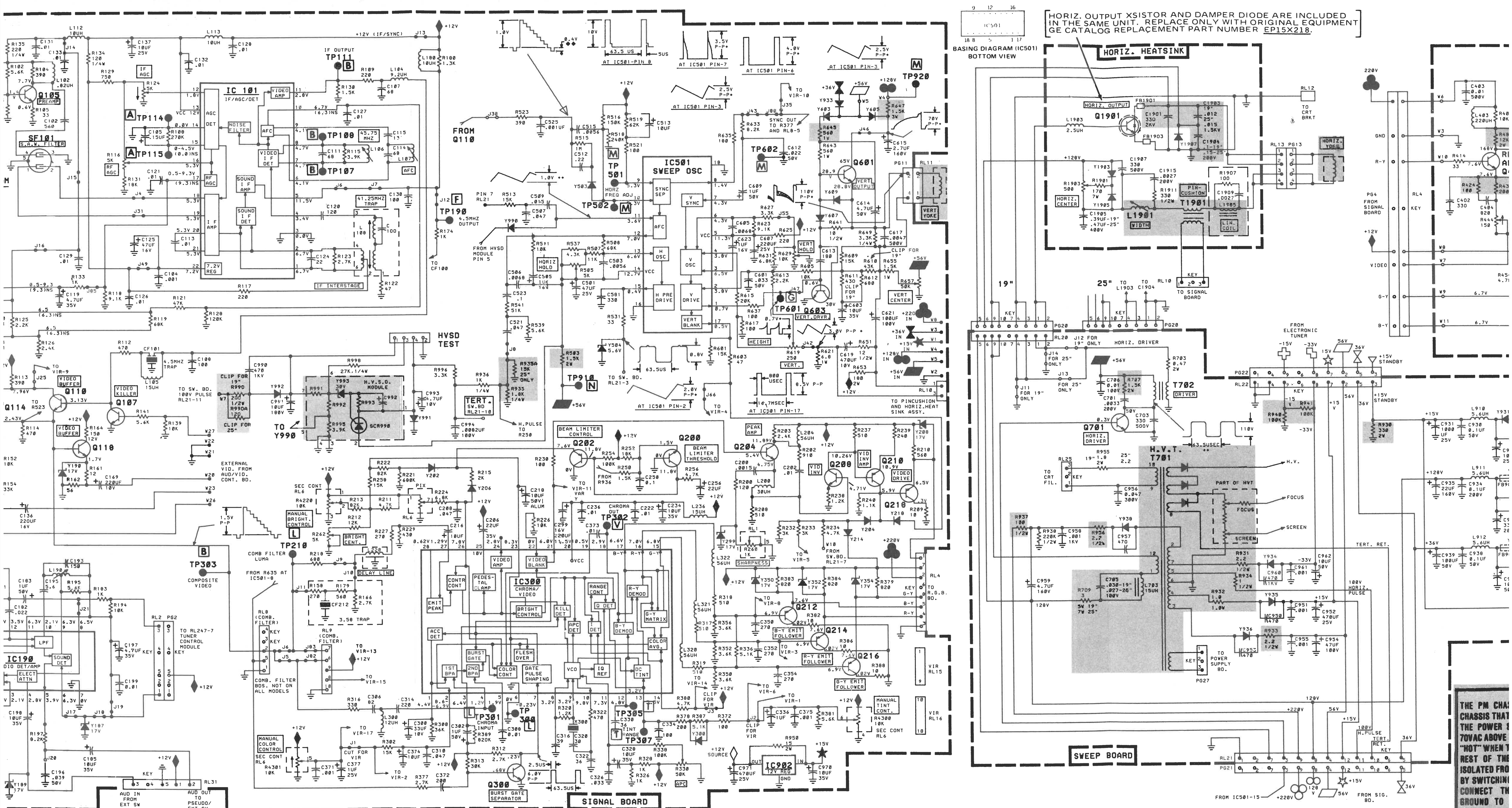
(PARTS LIST CONTINUED ON PM—B MINI-MANUAL SUPPLEMENT)

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN COMPONENT REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. THE (*) BESIDE A PART IN THE PARTS LIST AND THE SHADED AREAS OF THE SCHEMATIC DIAGRAM DESIGNATES COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE. IT IS PARTICULARLY RECOMMENDED THAT EXACT CATALOGED PARTS BE USED FOR REPLACEMENT OF COMPONENTS WHICH ARE DESIGNATED BY A (*) IN THE PARTS LIST AND THE SHADED AREAS ON THE SCHEMATIC DIAGRAM. USE OF SUBSTITUTE REPLACEMENT PARTS WHICH DO NOT HAVE THE SAME SAFETY CHARACTERISTICS AS RECOMMENDED IN FACTORY SERVICE INFORMATION MAY CREATE SHOCK, FIRE OR OTHER HAZARDS, OR EXCESSIVE X-RADIATION.





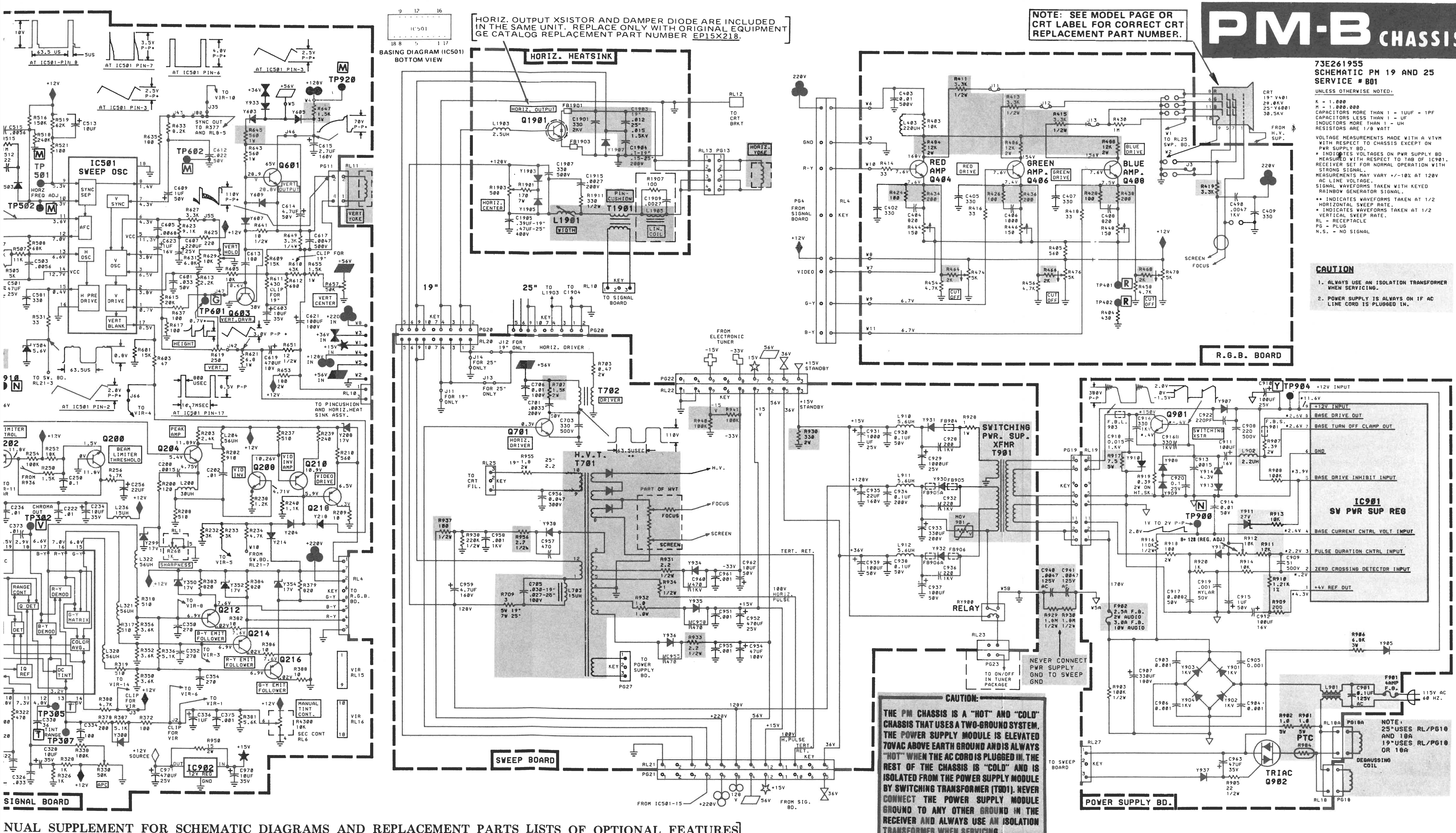
PM CHASSIS (BASIC RECEIVER) SCHEMATIC DIAGRAMS — [SEE PM CHA



IS (BASIC RECEIVER) SCHEMATIC DIAGRAMS — [SEE PM CHASSIS MINI-MANUAL SUPPLEMENT FOR SCHEMATIC DIAGRAMS AND REPLACEMENT PARTS LISTS OF OPTIONAL FEATURES]

PM-B CHASSIS

73E261955
SCHEMATIC PM 19 AND 25
SERVICE # B01



NUAL SUPPLEMENT FOR SCHEMATIC DIAGRAMS AND REPLACEMENT PARTS LISTS OF OPTIONAL FEATURES]

19" & 25" PM—B CHASSIS

MINI-MANUAL

SERVICE INFORMATION
FOR TECHNICIAN
USE ONLY

ACCESSIBLE FROM INSIDE
TV SET ONLY

73E261918—2

Includes: Safety Information, Field Service Adjustments, Chassis Layout, Service Positions, Symptom Troubleshooting Charts, (Basic) Receiver Schematics, & (Partial) Replacement Parts List.

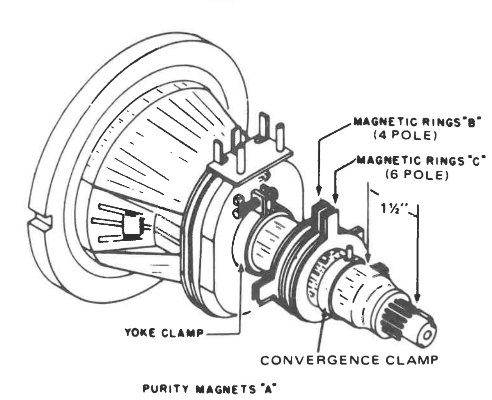


FIGURE 1

"FOUR-STEP" PURITY, CONVERGENCE, AND GREY-SCALE ADJUSTMENTS

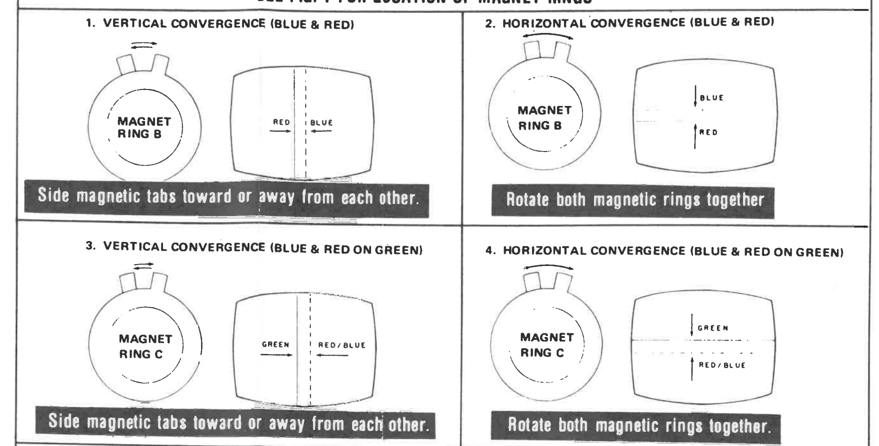
STEP #1 — PURITY

1. Degauss and allow receiver to warm up at least 10 minutes before adjusting for purity. The convergence/purity magnetic assembly should be secured 1½ inch from the tip of the CRT pins (See Figure 1). The convergence at the picture center should be set approximately correct. Go to Step #2 (STATIC CONVERGENCE) and perform, if necessary, before proceeding. [Z] [Z] [Z]
2. Using a blank raster, Turn Blue, Red, and Green Cutoff controls fully CCW. Turn brightness fully CW. Adjust Brite Center (R262), until raster is just cut off. Adjust Red Cutoff control CW for red raster. [M]
3. Slide deflection yoke back. Set purity rings so that the squared tab and the rounded tab are together and horizontal. Separate the rings to center the red bar (See Figure 2). Do not rotate the rings as this will cause a vertical movement of the red bar.
4. Slide the deflection yoke forward to obtain a pure red field.
5. Turn Red Cutoff control fully CCW, and, one at a time, turn up the Blue and Green Cutoff controls to check the purity of the blue and green fields. If necessary, repeat adjustments for best compromise. Secure the yoke clamp.

STEP #2 — STATIC CONVERGENCE

GREEN GUN IS THE CENTER GUN. CONVERGE THE RED AND BLUE. THEN CONVERGE RED AND BLUE ON GREEN. USE A CROSSHATCH PATTERN.

SEE FIG. 1 FOR LOCATION OF MAGNET RINGS



REPEAT STEP 1 AND 2. IF ALL LINES ARE NOT CONVERGED AT CENTER.

STEP #3 — DYNAMIC CONVERGENCE

1. Use a crosshatch pattern.
2. If it is necessary to correct for horizontal splits (See Figure 4), insert a wedge between the CRT and yoke at position A (Figure 3).
3. If it is necessary to correct for vertical splits (Figure 5) readjust the wedge slightly to the left or right.
4. For edge convergence insert a wedge in position B or E (Figure 3). If the blue is high (Figure 6) insert a wedge in position B. If the red is high (Figure 7) insert a wedge in position E.
5. To "lock" the dynamic convergence:
   A. If the second wedge was inserted in position B, insert the third wedge in position D.
   B. If the second wedge was inserted in position E. Insert the third wedge in position C.
   C. Confirm that dynamic convergence remains properly aligned and lock each wedge in position with a strip of tape.

STEP #4 — GRAY SCALE AND BRIGHTNESS CENTERING

1. Tune in a color picture, set the Brightness, Picture, Color, Red, Green, Blue Cutoff controls and screen control fully CCW.
2. Turn the VIR off. Place black tape over Light Sensor. [R]
3. Disconnect the vertical yoke plug, PG11. Short TP401 to TP402. Adjust Screen Control CW until raster line lights. Then turn it CCW until the line just goes black. Disconnect the short from TP401. [R]
4. Turn Brightness fully CW. Turn Brite Center CCW until first gun just lights. Adjust Red, Blue, and Green Cutoff controls to just illuminate the line. Connect vertical yoke plug, PG11. [M]
5. Turn Picture Control and Brightness Range up for normal picture. Adjust the Drive Control of the predominate color for best gray scale in the high brightness areas.
6. Readjust Cutoff controls for low brightness areas. Repeat as necessary. Remove tape from Light Sensor opening.
7. Brite Center Adjustment - Turn the Brightness control fully CW and the Picture control fully CCW. Turn the Brite Center so that the black areas in the picture are slightly gray. [M]

PURITY

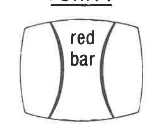


FIGURE 2

WEDGE POSITIONS

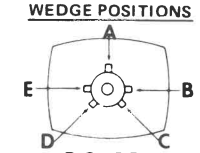
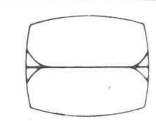
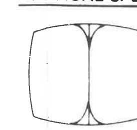


FIGURE 3
(Rear View)

HORIZONTAL SPLITS


FIGURE 4

VERTICAL SPLITS


FIGURE 5

BLUE (HIGH)

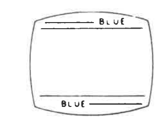


FIGURE 6

RED (HIGH)

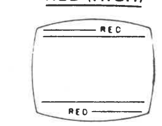


FIGURE 7

[IMPORTANT—SAFETY INFORMATION]

CAUTION:

THE PM CHASSIS IS A "HOT" AND "COLD" CHASSIS THAT USES A TWO-GROUND SYSTEM. THE POWER SUPPLY MODULE IS ELEVATED 70VAC ABOVE EARTH GROUND AND IS ALWAYS "HOT" WHEN THE AC CORD IS PLUGGED IN. THE REST OF THE CHASSIS IS "COLD" AND IS ISOLATED FROM THE POWER SUPPLY MODULE BY SWITCHING TRANSFORMER (T901). NEVER CONNECT THE POWER SUPPLY MODULE GROUND TO ANY OTHER GROUND IN THE RECEIVER AND ALWAYS USE AN ISOLATION TRANSFORMER WHEN SERVICING.

AFTER SERVICING, PERFORM THE FOLLOWING SAFETY CHECK:

A. Connect the VHF antenna to the VHF antenna terminals.
B. Do not plug the receiver into a power outlet. Connect both blades of the power plug together and place the ON—OFF switch in the ON position.
C. Measure between the shorted power plug and the following points. Readings should be as indicated below.

TEST POINT	MIN. OHMS	MAX. OHMS
UHF Antenna Terminals	600K	5.2 MEGS
VHF Antenna Terminals	600K	5.2 MEGS
Cabinet Back Screws	OPEN CIRCUIT	
All Metal Controls or Channel Selector Shafts (with Knobs Removed)	OPEN CIRCUIT	
All Non-Removable Metalic Knobs, Push Buttons, Earphone Jacks, etc.	OPEN CIRCUIT	
Metal Escutcheons and Overlays	OPEN CIRCUIT	

IF ANY READING IS NOT WITHIN THE SPECIFIED LIMITS, THE CAUSE SHOULD BE IDENTIFIED AND CORRECTED BEFORE OPERATING THE RECEIVER.

ADJUSTMENT PROCEDURE

HIGH VOLTAGE

Normal high voltage is approximately 29.0KV (19") and 30.5KV (25") at zero beam current (black picture) with 120VAC line input. High Voltage is adjustable with B+ (128V) regulator adjust (R912). [N]

B+ (128V) REGULATOR ADJUSTMENT

1. Set Brite and Picture controls to minimum and measure DC voltage at TP920. [M]
2. Voltage should read +127 to +129 volts, if not, adjust R912 for exactly 128 volts. [N]
3. Set Brite and Picture controls to maximum and voltage should now read 128VDC ±0.5V, if not, troubleshoot power supply before proceeding.

HIGH VOLTAGE SHUTDOWN CIRCUIT CHECK. [V]

PERFORM WHENEVER HIGH VOLTAGE CIRCUITRY OR POWER SUPPLY BOARD IS SERVICED.

1. With Brite and Picture controls set at minimum, Pin 1 (HVSD TEST) to ground should read +100 to +110VDC.
2. Set Brite and Picture controls to maximum and measure DC voltage at Pin 4 (HVSD TEST) to ground. The voltage should be between -2.8 and -3.8 volts.
3. Short Pin 1 to Pin 3 (HVSD TEST). High voltage must shutdown, and stay down after short is removed.
4. Remove short, switch receiver OFF and then back ON.
5. Set should operate normally.

NOTE: THE CAUSE FOR ANY DEVIATIONS FROM NORMAL NOTED IN STEPS 1, 2 AND 3 ABOVE MUST BE IDENTIFIED AND CORRECTED BEFORE OPERATING THE RECEIVER.

AGC ADJUSTMENT [A]

IF and RF/AGC is factory pre-set, field adjustment is not normally required. However, if the "pot seals" have been broken and misadjustment has occurred, re-adjustment is as follows:

1. Connect a Dot/Bar Generator to the antenna terminals.
2. Adjust IF/AGC (R124) using stairstep video output (Generator) to show 1.4 to 1.6V (P-P) on Scope at TP303. [B]
3. Adjust RF/AGC (R116) using color-bar pattern otuput at 1.2MV to read 6VDC at RL3, Pin 5 with a voltmeter.

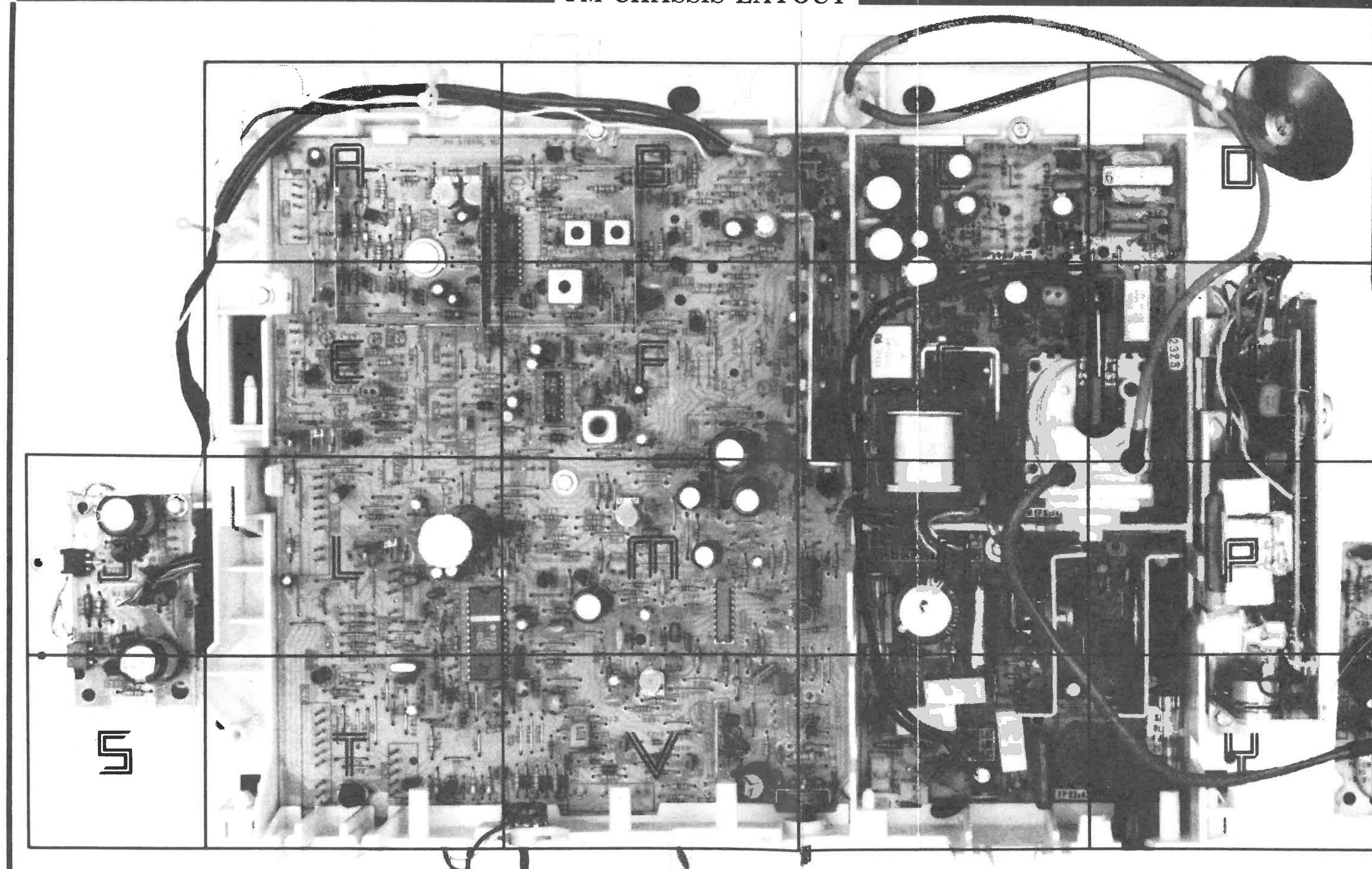
AFC ADJUSTMENT [B] [A]

1. Tune in a strong station with color.
2. Connect a voltmeter between Pin 4 and Pin 6 of RL3. [A]
3. Set voltmeter to low DC voltage range and monitor AFC differential voltage.
4. Adjust L107 (AFC Crossover adjust) until AFC differential voltage changes polarity suddenly, then re-adjust L107 for zero (0) volts. [B]

APC ADJUSTMENT [T]

APC is factory pre-set, not recommended for field adjustment.

PM CHASSIS LAYOUT



TEST POINTS

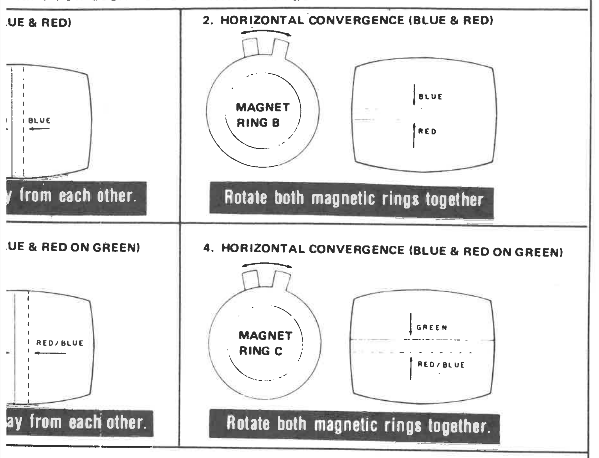
TP107 (45.75MHz) B
TP108 (45.75MHz) B
TP111 (IF Output) B
TP114 (AGC) A
TP115 (AGC) A
TP190 (4.5MHz Out) F
TP210 (Comb Filter Luma) L
TP300 (GND) L
TP301 (Chroma Out) L
TP302 (Chroma Out) V
TP303 (Composite Vid) B
TP305 (Tint Range) T
TP307 (Tint Range) T
TP401 (RGB-Grey/Scale) R
TP402 (RGB-Grey/Scale) R
TP501 (Horiz Freq) M
TP502 (Horiz Freq) M
TP601 (Vert Out) G
TP602 (Vert Sync Out) M
TP900 (IC901 Base Cntl Volt
TP904 (B+ 12V) Y
TP910 (B+ 56V) N
TP920 (B+ 128V) M

GREY-SCALE ADJUSTMENTS

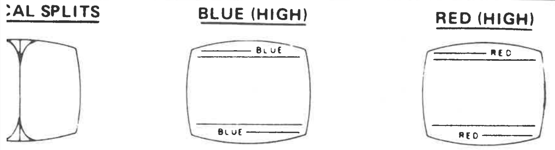
STEP #2 — STATIC CONVERGENCE

1. CONVERGE THE RED AND BLUE. THEN CONVERGE RED AND BLUE ON GREEN. USE A CROSSHATCH PATTERN.

FIG. 1 FOR LOCATION OF MAGNET RINGS



D 2. IF ALL LINES ARE NOT CONVERGED AT CENTER.



URE 5 — FIGURE 6 — FIGURE 7

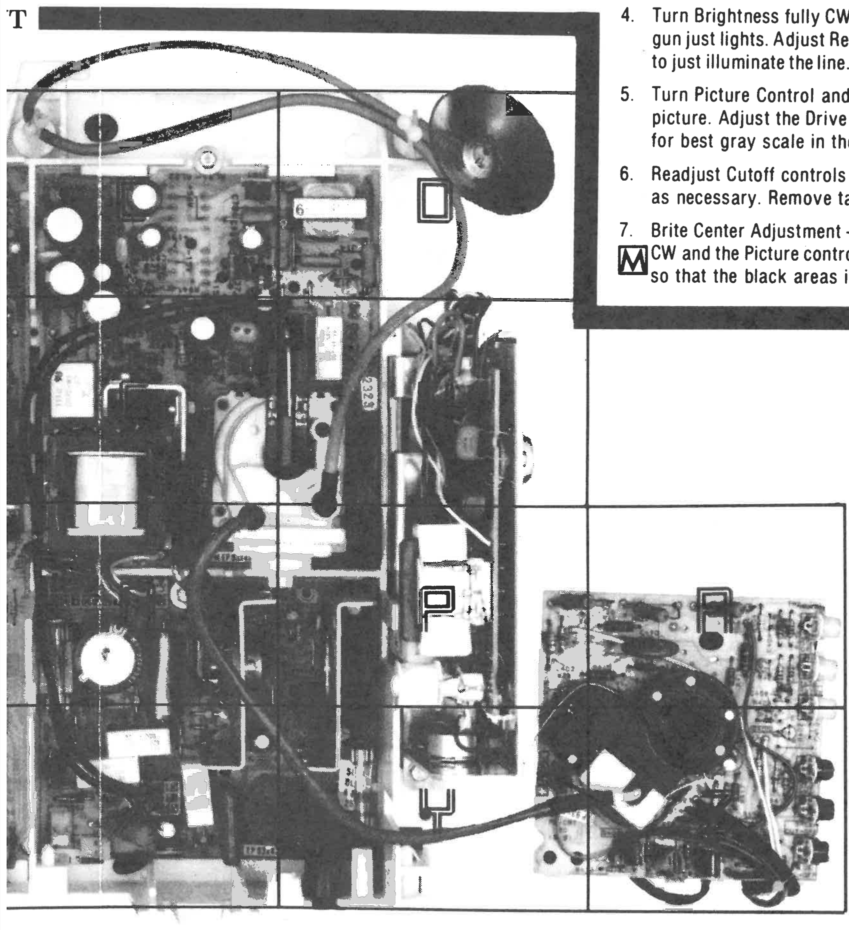
STEP #3 — DYNAMIC CONVERGENCE

1. Use a crosshatch pattern.
2. If it is necessary to correct for horizontal splits (See Figure 4), insert a wedge between the CRT and yoke at position A (Figure 3).
3. If it is necessary to correct for vertical splits (Figure 5) readjust the wedge slightly to the left or right.
4. For edge convergence insert a wedge in position B or E (Figure 3). If the blue is high (Figure 6) insert a wedge in position B. If the red is high (Figure 7) insert a wedge in position E.
5. To "lock" the dynamic convergence:
   A. If the second wedge was inserted in position B, insert the third wedge in position D.
   B. If the second wedge was inserted in position E. Insert the third wedge in position C.
   C. Confirm that dynamic convergence remains properly aligned and lock each wedge in position with a strip of tape.

STEP #4 — GRAY SCALE AND BRIGHTNESS CENTERING

1. Tune in a color picture, set the Brightness, Picture, Color, Red, Green, Blue Cutoff controls and screen control fully CCW.
2. Turn the VIR off. Place black tape over Light Sensor. R
3. Disconnect the vertical yoke plug, PG11. Short TP401 to R TP402. Adjust Screen Control CW until raster line lights. Then turn it CCW until the line just goes black. Disconnect the short from TP401.
4. Turn Brightness fully CW. Turn Brite Center CCW until first M gun just lights. Adjust Red, Blue, and Green Cutoff controls to just illuminate the line. Connect vertical yoke plug, PG11.
5. Turn Picture Control and Brightness Range up for normal picture. Adjust the Drive Control of the predominate color for best gray scale in the high brightness areas.
6. Readjust Cutoff controls for low brightness areas. Repeat as necessary. Remove tape from Light Sensor opening.
7. Brite Center Adjustment - Turn the Brightness control fully M CW and the Picture control fully CCW. Turn the Brite Center so that the black areas in the picture are slightly gray.

T



TEST POINTS

- TP107 (45.75MHz) B
- TP108 (45.75MHz) B
- TP111 (IF Output) B
- TP114 (AGC) A
- TP115 (AGC) A
- TP190 (4.5MHz Out) F
- TP210 (Comb Filter Luma) L
- TP300 (GND) L
- TP301 (Chroma Out) L
- TP302 (Chroma Out) V
- TP303 (Composite Vid) B
- TP305 (Tint Range) T
- TP307 (Tint Range) T
- TP401 (RGB-Grey/Scale) R
- TP402 (RGB-Grey/Scale) R
- TP501 (Horiz Freq) M
- TP502 (Horiz Freq) M
- TP601 (Vert Out) G
- TP602 (Vert Sync Out) M
- TP900 (IC901 Base Cntl Volt) N
- TP904 (B+ 12V) Y
- TP910 (B+ 56V) N
- TP920 (B+ 128V) M

PM CHASSIS TROUBLESHOOTING FLOW CHARTS

ORANGE LETTERS IDENTIFY CHASSIS LAYOUT GRID FOR COMPONENT LOCATION (SEE PM CHASSIS LAYOUT – BOTTOM LEFT)

NO RASTER NO SOUND

- [Y N] CHECK FUSES F901-F902 ON POWER SUPPLY BOARD.
  - [Y N] F901-F902 OK
    - APPLY POWER
    - [C] MEASURE VOLTAGE AT RL22, PIN 3. IS IT AT LEAST 18 VOLTS (RL22 IS ON SWEEP MOD).
      - → VOLTAGE LOW OR MISSING REMOVE POWER
      - VOLTAGE NORMAL AT RL22.
    - [G] REMOVE PG23. JUMPER PIN 1 OF RL23 TO TRANSFORMER T901 AT MOV 901 (BYPASSES RELAY).
    - DOES HIGH VOLTAGE COME UP?
      - YES: [G] CHECK ON/OFF RELAY RY900 AND TUNER CONTROL
      - NO: [N] → WITH POWER REMOVED, CHECK Q901 IN CIRCUIT.
    - [C] CHECK 128 VOLTS, 36 VOLTS, Y933, Q701, Q1901, T701, AND ASSOCIATED COMPONENTS. [F] [H] [N]
  - [Y N] F901 or F902 BLOWN
    - [G] CHECK FOR OPEN OR SHORTED Y931, Y932, Y930, R920, R930, T901. [N]
    - REPLACE DEFECTIVE COMPONENT. CHECK POWER SUPPLY BEFORE REPLACING FUSE.
    - WITH POWER REMOVED, CHECK Q901 IN CIRCUIT.
      - [N] Q901 COLLECTOR SHORTED TO GROUND? [H]
        - BEFORE REPLACING Q901. CHECK Y914, Y913, Y930, Y931, Y932, AND C907.
        - IF C907 OPENS, F902 WILL OPEN AND Q901 WILL SHORT.
      - Q901 CHECKS OK
        - MEASURE RESISTANCE OF TP904 TO GROUND.
        - IF RESISTANCE AT TP904 IS 0 to 20K, SUSPECT IC901.
        - IF RESISTANCE AT TP904 IS GREATER THAN 20K AND CHANGING SUSPECT R906, Y905.
      - Q901 OPEN COLLECTOR TO BASE?
        - [X] BEFORE REPLACING Q901, CHECK R901, R902, Y902, Y901, Y903, Y904, C907. [N]
- (NO) DOES ON-OFF RELAY CLICK ONCE? [G]
  - QUICK CHECK: IF RELAY CLICKS RAPIDLY: REMOVE PG20 TO HORIZ HEAT SINK, PRESS ON/OFF AGAIN, DOES RELAY CLICK ONCE? CHECK COMPONENTS ON HEAT SINK BOARD. [H] [P] [Y]
  - (YES) → MEASURE VOLTAGE ON SWEEP MODULE AT RL21, PIN 8. IS IT AT LEAST +120 VOLTS? MEASURE VOLTAGE AT RL21, PIN 5. IS IT AT LEAST +30 VOLTS? [C] → VOLTA…
    - VOLTAGE NORMAL AT RL21, PINS 5 AND 8.
    - [C] MEASURE VOLTAGE AT THE COLLECTOR OF HORIZ DRIVER Q701.
    - [F] NO Q701 COLLECTOR VOLTAGE OR LOWER THAN 20 VOLTS. CHECK Y633 (ON SIGNAL BOARD), Q701, OR WIRING TO Q701.
    - [C] IF Q701 COLLECTOR VOLTAGE IS AT LEAST 30 VOLTS? MEASURE BASE VOLTAGE OF Q701. IS IT .3 VOLT?
      - YES: CHECK DRIVER TRANSFORMER T702, Q1901 FOR OPEN AND FLYBACK TRANSFORMER T701.
      - NO: [M] → [C] NO Q70… VOLTA… CHECK … COMPO…

(Right edge, cut off: VOLTA… Y931, Y… [G] … VOLTA… PIN 1 … [G] MOV9… MEASU… LEAST… RELAY…)

NO VIDEO/ABNORMAL VIDEO

- DOES THE SET HAVE COLOR BUT NOT THE BLACK AND WHITE PART OF THE PICTURE?
  - YES: [E] CHECK FOR OPEN DELAY LINE L220. [L] CHECK Q204, FRONT TO BACK RESISTANCE SHOULD BE AT LEAST 10:1 IN CIRCUIT.
  - NO: → [E] UNPLUG PG7 FROM THE SIGNAL CIRCUIT BOARD. QUICKLY "MAKE AND BREAK" CONTACT BETWEEN PG7 AND ITS CONNECTING PINS ON THE BOARD. DOES THIS CAUSE THE RASTER TO CHANGE OR FLASH?
    - YES: THE PROBLEM IS IN THE ELECTRONIC TUNING SECTION. REFER TO SEPARATE MINI-MANUAL ON THE ELECTRONIC TUNING SYSTEM USED IN THE MODEL RECEIVER YOU ARE TROUBLESHOOTING.
    - NO: [A] CHECK Q105 FRONT TO BACK RESISTANCE SHOULD BE AT LEAST 10:1 IN CIRCUIT.

NO AUDIO

- [F] MEASURE THE VOLTAGE AT IC190 PIN 8. WILL IT CHANGE FROM 0 TO APPROXIMATELY 4.5VDC AS "VOLUME UP" IS DEPRESSED AND HELD DOWN?
  - YES: [J] CHECK THE CONNECTIONS TO THE SPEAKER. CHECK Q194, Q195, Q196 AND Y111. FRONT TO BACK RESISTANCE SHOULD BE AT LEAST 10:1 IN CIRCUIT. [S]
  - NO: → DISCO… SOUND… YES → PROBL… CONTR… ELECTR… ; CHECK… COMP… SOLDER…

NO SYNC/ABNORMAL SYNC

DOES THE RECEIVER HAVE:

NO HORIZONTAL SYNC

- [V] CHECK THE ADJUSTMENT OF THE HORIZONTAL HOLD CONTROL, R505.
- [V] MEASURE THE VOLTAGE AT THE CATHODE OF Y990. IS IT
  - +5VDC? CHECK FOR DEFECTIVE SOLDER CONNECTIONS, COMPONENT LEAD DRESS, AND SOLDER SHORTS AROUND PINS 11, 12, AND 13 OF IC501. [M]
  - 0VDC? [X] CHECK Y992. FRONT TO BACK RATIO SHOULD BE AT LEAST 10:1 IN CIRCUIT. IF Y992 IS GOOD REPLACE THE HIGH VOLTAGE SHUTDOWN MODULE. [V]

NO VERTICAL SYNC

- CHECK THE ADJUSTMENT OF THE VERTICAL HOLD CONTROL, R629. [X]
- CHECK FOR SOLDER CONNECTIONS, COMPONENT LEAD DRESS, AND SOLDER SHORTS AROUND PINS 7 AND 8 OF IC501. [M]

NO VERTI…

- [X] CHECK … VERTICA… CONTRO…
- [B] CHECK … TO BACK… AT LEAS…

PM CHASSIS TROUBLESHOOTING FLOW CHARTS

ORANGE LETTERS IDENTIFY CHASSIS LAYOUT GRID FOR COMPONENT LOCATION (SEE PM CHASSIS LAYOUT – BOTTOM LEFT)

NO RASTER NO SOUND

DOES ON-OFF RELAY CLICK ONCE? [G]

NO → CHECK FUSES F901-F902 ON POWER SUPPLY BOARD. [Y] [N]

F901 or F902 BLOWN [Y] [N]

F901-F902 OK [Y] [N]

Y POWER [C]

'AGE AT RL22, PIN 3. 8 VOLTS (RL22 IS ON

VOLTAGE LOW OR MISSING REMOVE POWER

CHECK FOR OPEN OR SHORTED Y931, Y932, Y930, R920, R930, T901. [G] [N]

REPLACE DEFECTIVE COMPONENT. CHECK POWER SUPPLY BEFORE REPLACING FUSE.

WITH POWER REMOVED, CHECK Q901 IN CIRCUIT. [N]

Q901 COLLECTOR SHORTED TO GROUND? [N] [H]

BEFORE REPLACING Q901, CHECK Y914, Y913, Y930, Y931, Y932, AND C907.

IF C907 OPENS, F902 WILL OPEN AND Q901 WILL SHORT.

Q901 OPEN COLLECTOR TO BASE?

BEFORE REPLACING Q901, CHECK R901, R902, Y902, Y901, Y903, Y904, C907. [X] [N]

Q901 CHECKS OK

MEASURE RESISTANCE OF TP904 TO GROUND.

IF RESISTANCE AT TP904 IS 0 to 20K, SUSPECT IC901.

IF RESISTANCE AT TP904 IS GREATER THAN 20K AND CHANGING SUSPECT R906, Y905.

'AL AT RL22.

JUMPER PIN 1 OF SFORMER T901 AT SSES RELAY).

TAGE COME UP?

NO [G]

RELAY RY900 AND L

TS, 36 VOLTS, Y933, 1, T701, AND OMPONENTS. [F] [N]

YES →

QUICK CHECK

IF RELAY CLICKS RAPIDLY: REMOVE PG20 TO HORIZ HEAT SINK, PRESS ON/OFF AGAIN, DOES RELAY CLICK ONCE? CHECK COMPONENTS ON HEAT SINK BOARD. [H] [P] [Y]

MEASURE VOLTAGE ON SWEEP MODULE AT RL21, PIN 8. IS IT AT LEAST +120 VOLTS? MEASURE VOLTAGE AT RL21, PIN 5. IS IT AT LEAST +30 VOLTS? [C]

VOLTAGE LOW OR MISSING.

VOLTAGE LOW CHECK L911, L912, Y931, Y932, T901. [C] [G] [G] [G]

VOLTAGE MISSING. JUMPER RL23, PIN 1 TO TRANSFORMER T901 AT MOV901. (BYPASSES RELAY) MEASURE RL21, PIN 8. IS IT AT LEAST +120 VOLTS? REPLACE RELAY RY900. [G] [G]

VOLTAGE NORMAL AT RL21, PINS 5 AND 8.

MEASURE VOLTAGE AT THE COLLECTOR OF HORIZ DRIVER Q701. [G] [C]

NO Q701 COLLECTOR VOLTAGE OR LOWER THAN 20 VOLTS. CHECK Y633 (ON SIGNAL BOARD), Q701, OR WIRING TO Q701. [F]

IF Q701 COLLECTOR VOLTAGE IS AT LEAST 30 VOLTS? MEASURE BASE VOLTAGE OF Q701. IS IT .3 VOLT? [C]

YES → CHECK DRIVER TRANSFORMER T702, Q1901 FOR OPEN AND FLYBACK TRANSFORMER T701.

NO → NO Q701 BASE VOLTAGE OR BASE VOLTAGE IS HIGHER THAN .8 VOLT. CHECK IC501, R531 AND ASSOCIATED COMPONENTS. [C] [M]

NO VIDEO/ABNORMAL VIDEO

HAVE COLOR BUT AND WHITE PART ?

NO → UNPLUG PG7 FROM THE SIGNAL CIRCUIT BOARD. QUICKLY "MAKE AND BREAK" CONTACT BETWEEN PG7 AND ITS CONNECTING PINS ON THE BOARD. DOES THIS CAUSE THE RASTER TO CHANGE OR FLASH? [E]

YES → EM IS IN THE TUNING SECTION. RATE MINI-MANUAL CTRONIC TUNING IN THE MODEL ARE TROUBLESHOOT-

NO → CHECK Q105 FRONT TO BACK RESISTANCE SHOULD BE AT LEAST 10:1 IN CIRCUIT. [A]

N DELAY LINE L220. FRONT TO BACK IOULD BE AT LEAST [L]

NO AUDIO

MEASURE THE VOLTAGE AT IC190 PIN 8. WILL IT CHANGE FROM 0 TO APPROXIMATELY 4.5VDC AS "VOLUME UP" IS DEPRESSED AND HELD DOWN? [F]

YES → CHECK THE CONNECTIONS TO THE SPEAKER. CHECK Q194, Q195, Q196 AND Y111. FRONT TO BACK RESISTANCE SHOULD BE AT LEAST 10:1 IN CIRCUIT. [J] [S]

NO → DISCONNECT PG2. DOES THE SOUND COME ON? [F]

YES → PROBLEM IS IN THE VOLUME CONTROL CIRCUITRY OF THE ELECTRONIC TUNING SYSTEM.

NO → CHECK FOR SOLDER CONNECTIONS, COMPONENT LEAD DRESS, AND SOLDER SHORTS AROUND IC190. [F]

NO SYNC/ABNORMAL SYNC

DOES THE RECEIVER HAVE:

NO HORIZONTAL SYNC

CHECK THE ADJUSTMENT OF THE HORIZONTAL HOLD CONTROL, R505. [V]

MEASURE THE VOLTAGE AT THE CATHODE OF Y990. IS IT [V]

+5VDC? → CHECK FOR DEFECTIVE SOLDER CONNECTIONS, COMPONENT LEAD DRESS, AND SOLDER SHORTS AROUND PINS 11, 12, AND 13 OF IC501. [M]

0VDC? → CHECK Y992. FRONT TO BACK RATIO SHOULD BE AT LEAST 10:1 IN CIRCUIT. IF Y992 IS GOOD REPLACE THE HIGH VOLTAGE SHUTDOWN MODULE. [X] [V]

NO VERTICAL SYNC

CHECK THE ADJUSTMENT OF THE VERTICAL HOLD CONTROL, R629. [X]

CHECK FOR SOLDER CONNECTIONS. COMPONENT LEAD DRESS, AND SOLDER SHORTS AROUND PINS 7 AND 8 OF IC501. [M]

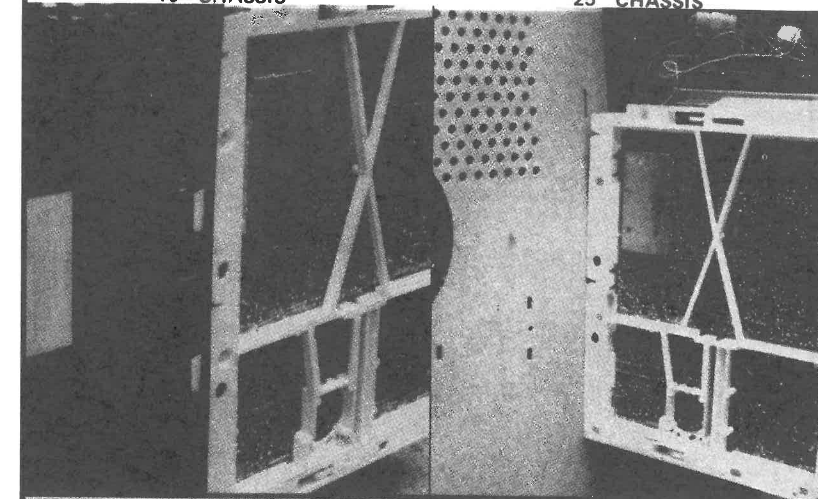
NO VERTICAL OR HORIZONTAL SYNC

CHECK THE ADJUSTMENT OF THE VERTICAL AND HORIZONTAL HOLD CONTROL IS NO SUCCESS. [X] [V]

CHECK Q110, Q114, Y503. FRONT TO BACK RESISTANCE SHOULD BE AT LEAST 10:1 IN CIRCUIT. [B] [M]

PM CHASSIS SERVICE POSITIONS

19" CHASSIS 25" CHASSIS



ABNORMAL GRAY SCALE

CHECK THE ADJUSTMENT OF THE CRT DRIVE CONTROLS. IF NO SUCCESS.

CHECK Q404, Q406, AND Q408. CHECK Q212, Q214, AND Q216. CHECK Y350, Y352, Y354. FRONT TO BACK RESISTANCE SHOULD BE AT LEAST 10:1 IN CIRCUIT. [Z] [V] [T]

NO VERTICAL SWEEP/ABNORMAL VERTICAL SWEEP

CHECK THE ADJUSTMENT OF THE VERTICAL HEIGHT AND HOLD CONTROLS, IF NO SUCCESS: [N] [X]

MEASURE THE VOLTAGE ON THE CATHODE OF Y936. IS THE VOLTAGE 56 VOLTS ±10%.

YES → UNSOLDER ONE END OF Y607 AND Y609. CHECK THEM FOR A FRONT TO BACK RESISTANCE OF AT LEAST 10:1. BEFORE RECONNECTING Y607 AND Y609 CHECK Q601, Q603, AND Y605 FOR A FRONT TO BACK RESISTANCE OF AT LEAST 10:1. [G] [G] [F]

NO → CHECK Y936, R933 AND THE HVT WINDING BETWEEN PINS 3 AND 6. [G] [G] [N]

NO COLOR/ABNORMAL COLOR

DOES THE SET HAVE A VIR MODULE?

NO → CHECK Q300. FRONT TO BACK RESISTANCE SHOULD BE AT LEAST 10:1 IN CIRCUIT. [T]

YES → TURN THE VIR SWITCH OFF. CAN NORMAL COLOR BE OBTAINED?

YES → TURN THE VIR SWITCH BACK ON. CHECK THE ADJUSTMENT OF THE PREFERENCE CONTROLS (VIR ONLY). IF NO SUCCESS REPLACE THE VIR MODULE.

NO → REMOVE THE VIR MODULE, USE CLIP LEADS TO RESTORE JUMPER WIRE CONNECTIONS J1, AND J2,* CAN NORMAL COLOR BE OBTAINED? [L]

YES → REPLACE THE VIR MODULE.

NO → (to CHECK Q300)

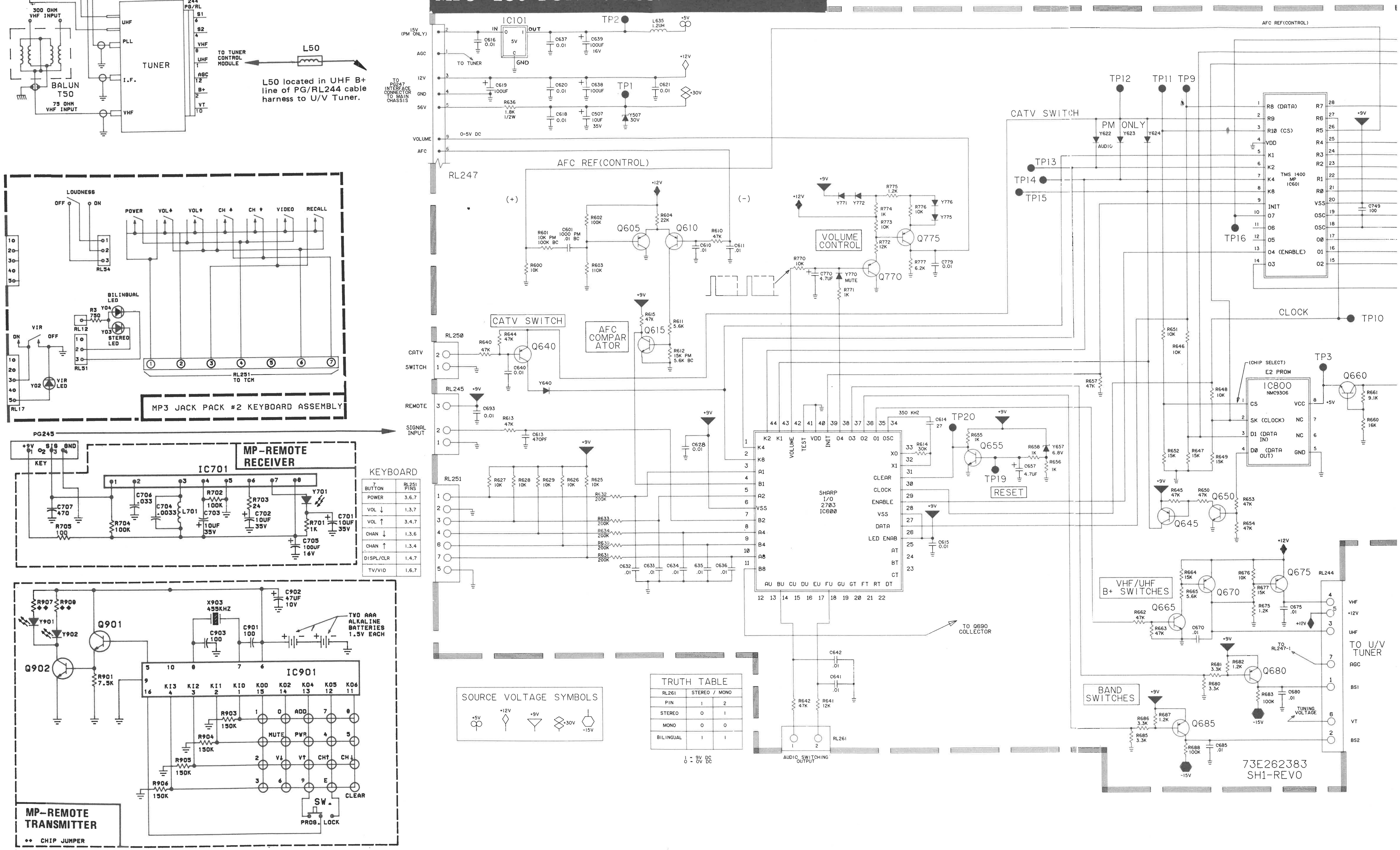
[L]

* J1 AND J2 ARE CLIPPED FOR VIR.

73E261918—2

MP3 ELECTRONIC TUNING

MP3—130 TUNER CONTROL MODULE



KEYBOARD

7 BUTTON	RL251 PINS
POWER	3,6,7
VOL ↓	1,3,7
VOL ↑	3,4,7
CHAN ↓	1,3,6
CHAN ↑	1,3,4
DISPL/CLR	1,4,7
TV/VID	1,6,7

TRUTH TABLE

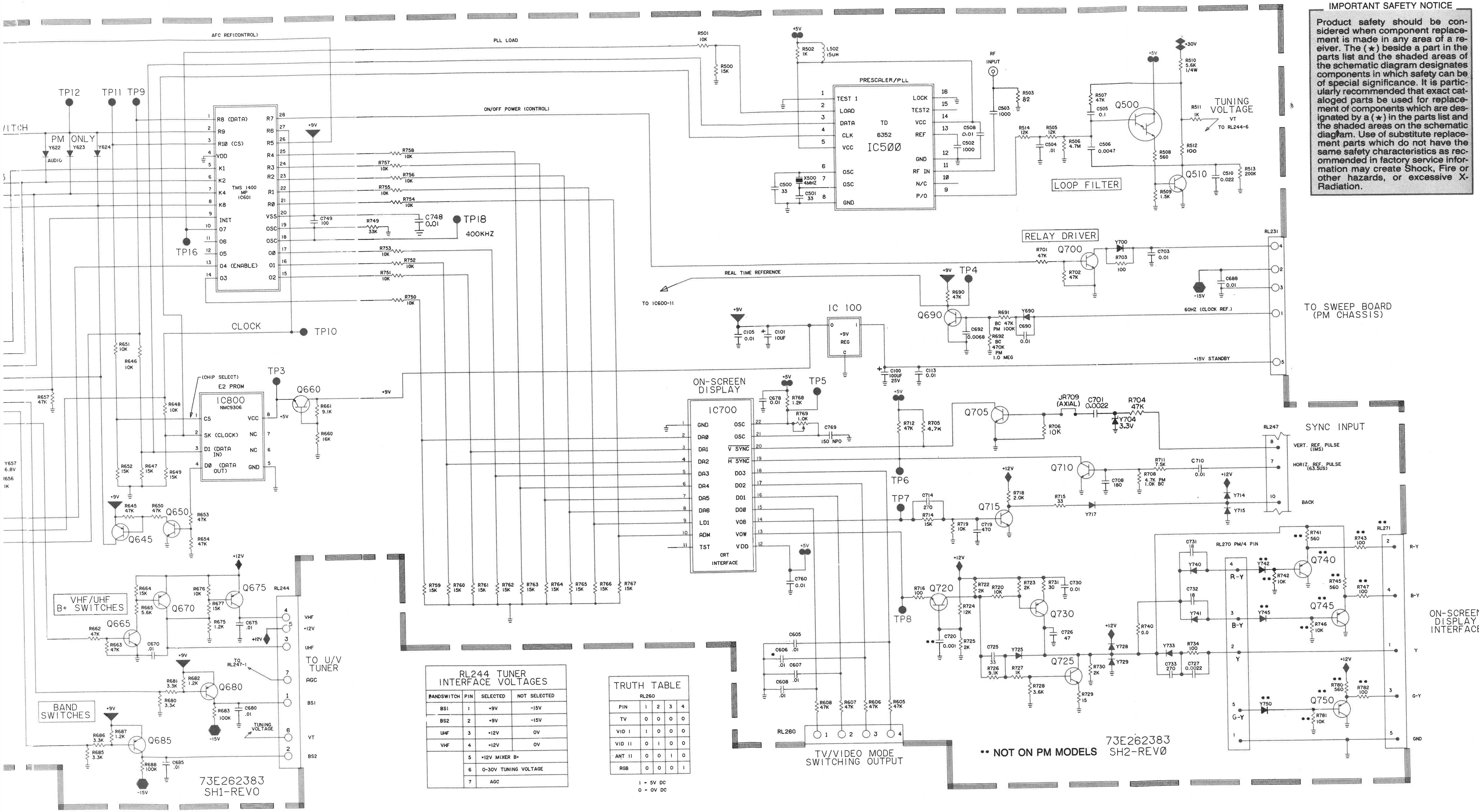
RL261	STEREO / MONO	
PIN	1	2
STEREO	0	1
MONO	0	0
BILINGUAL	1	1

1 = 9V DC
0 = 0V DC

MP3 ELECTRONIC TUNING SYSTEM

IMPORTANT SAFETY NOTICE

Product safety should be considered when component replacement is made in any area of a receiver. The (★) beside a part in the parts list and the shaded areas of the schematic diagram designates components in which safety can be of special significance. It is particularly recommended that exact cataloged parts be used for replacement of components which are designated by a (★) in the parts list and the shaded areas on the schematic diagram. Use of substitute replacement parts which do not have the same safety characteristics as recommended in factory service information may create Shock, Fire or other hazards, or excessive X-Radiation.



RL244 TUNER INTERFACE VOLTAGES

BANDSWITCH	PIN	SELECTED	NOT SELECTED
BS1	1	+9V	-15V
BS2	2	+9V	-15V
UHF	3	+12V	0V
VHF	4	+12V	0V
	5	+12V MIXER B+	
	6	0-30V TUNING VOLTAGE	
	7	AGC	

TRUTH TABLE

RL260

PIN	1	2	3	4
TV	0	0	0	0
VID I	1	0	0	0
VID II	0	1	0	0
ANT II	0	0	1	0
RGB	0	0	0	1

1 - 5V DC
0 - 0V DC

MP3-130 TUNER CONTROL CIRCUIT BOARD

EP93X585

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C100	EP31X162	100µf, 20%, 25V, Elect.
C101	EP31X150	10µf, 20%, 35V, Elect.
C105	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C113	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C500	EP18X188	33pf, 5%, 50V, NPO, Cer. Disc
C501	EP18X188	33pf, 5%, 50V, NPO, Cer. Disc
C502	EP17X4	1000pf, 5%, 50V, Cer. Chip
C503	EP17X4	1000pf, 5%, 50V, Cer. Chip
C504	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C505	EP25X77	.1µf, 20%, 50V, Polyester
C506	EP18X260	4700pf, 10%, 50V, SHiK, Cer. Disc
C507	EP31X150	10µf, 20%, 35V, Elect.
C508	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C510	EP18X214	.022µf, +80-20%, 50V, HiK, Cer. Disc
C601	EP17X4	1000pf, 5%, 50V, Cer. Chip
C605	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C606	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C607	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C608	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C610	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C611	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C613	EP18X142	470pf, 5%, 50V, Cer. Disc
C614	EP18X187	27pf, 5%, 50V, NPO, Cer. Disc
C615	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C616	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C618	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C619	EP31X162	100µf, 20%, 25V, Elect.
C620	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C621	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C628	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C632	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C633	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C634	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C635	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C636	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C637	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C638	EP31X162	100µf, 20%, 25V, ELect.
C639	EP31X162	100µf, 20%, 25V, Elect.
C640	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C641	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C642	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C657	EP31X144	4.7µf, 20%, 35V, Elect.
C670	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C675	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C680	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C685	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C688	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C690	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C692	EP18X229	6800pf, 5%, 50V, SHiK, Cer. Disc
C693	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C701	ES18X75	2200pf, 10%, 50V, SHiK, Cer. Disc
C703	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C708	EP18X272	180pf, 5%, 50V, NPO, Cer. Disc
C710	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C714	EP17X3	270pf, 5%, 50V, NPO, Cer. Chip
C719	EP18X142	470pf, 5%, 50V, Cer. Disc
C725	EP18X188	33pf, 5%, 50V, NPO, Cer. Disc
C726	EP18X189	47pf, 5%, 50V, NPO, Cer. Disc
C727	ES18X75	2200pf, 10%, 50V, SHiK, Cer. Disc
C730	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C731	EP18X185	18pf, 5%, 50V, NPO, Cer. Disc
C732	EP18X185	18pf, 5%, 50V, NPO, Cer. Disc
C733	EP17X3	270pf, 5%, 50V, NPO, Cer. Chip
C748	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C749	EP18X269	100pf, 5%, 50V, NPO, Cer. Disc
C760	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C768	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip
C769	EP18X113	150pf, 5%, 50V, NPO, Cer. Disc
C770	EP31X144	4.7µf, 20%, 35V, Elect.
C779	EP17X5	.01µf, +80-20%, 50V, HiK, Cer. Chip

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R500	EP14X398	15K ohm, 5%, 1/8W, Carbon
R501	EP14X103	10K ohm, 5%, 1/8W, Carbon
R502	ES14X71	1K ohm, 5%, 1/8W, Carbon
R503	EP14X428	82 ohm, 5%, 1/8W, Carbon
R505	EP14X413	12K ohm, 5%, 1/8W, Carbon
R506	EP14X430	4.7 meg ohm, 10%, 1/8W, Carbon
R507	EP14X125	47K ohm, 5%, 1/8W, Carbon
R508	ES14X59	560 ohm, 5%, 1/8W, Carbon
R509	ES14X62	1.5K ohm, 5%, 1/8W, Carbon
R510	EP14X379	5.6K ohm, 5%, 1/4W, Carbon
R511	ES14X71	1K ohm, 5%, 1/8W, Carbon
R512	EP14X443	110 ohm, 5%, 1/8W, Carbon
R513	EP14X427	200K ohm, 5%, 1/8W, Carbon
R514	EP14X413	12K ohm, 5%, 1/8W, Carbon
R600	EP14X103	10K ohm, 5%, 1/8W, Carbon
R601	EP14X103	10K ohm, 5%, 1/8W, Carbon
R602	EP14X105	100K ohm, 5%, 1/8W, Carbon
R603	EP14X390	110K ohm, 5%, 1/8W, Carbon
R604	EP14X104	22K ohm, 5%, 1/8W, Carbon
R605	EP14X125	47K ohm, 5%, 1/8W, Carbon
R606	EP14X125	47K ohm, 5%, 1/8W, Carbon
R607	EP14X125	47K ohm, 5%, 1/8W, Carbon
R608	EP14X125	47K ohm, 5%, 1/8W, Carbon
R610	EP14X125	47K ohm, 5%, 1/8W, Carbon
R611	EP14X379	5.6K ohm, 5%, 1/8W, Carbon
R612	EP14X398	15K ohm, 5%, 1/8W, Carbon
R613	EP14X125	47K ohm, 5%, 1/8W, Carbon
R614	EP14X419	30K ohm, 5%, 1/8W, Carbon
R615	EP14X125	47K ohm, 5%, 1/8W, Carbon
R625	EP14X103	10K ohm, 5%, 1/8W, Carbon
R626	EP14X103	10K ohm, 5%, 1/8W, Carbon
R627	EP14X103	10K ohm, 5%, 1/8W, Carbon
R628	EP14X103	10K ohm, 5%, 1/8W, Carbon
R629	EP14X103	10K ohm, 5%, 1/8W, Carbon
R630	EP14X427	200K ohm, 5%, 1/8W, Carbon
R631	EP14X427	200K ohm, 5%, 1/8W, Carbon
R632	EP14X427	200K ohm, 5%, 1/8W, Carbon
R633	EP14X427	200K ohm, 5%, 1/8W, Carbon
R634	EP14X427	200K ohm, 5%, 1/8W, Carbon
R636	EP14X480	1.8K ohm, 5%, 1/2W, Metal Oxide
R640	EP14X125	47K ohm, 5%, 1/8W, Carbon
R641	EP14X413	12K ohm, 5%, 1/8W, Carbon
R642	EP14X125	47K ohm, 5%, 1/8W, Carbon
R644	EP14X125	47K ohm, 5%, 1/8W, Carbon
R645	EP14X125	47K ohm, 5%, 1/8W, Carbon
R646	EP14X103	10K ohm, 5%, 1/8W, Carbon
R647	EP14X398	15K ohm, 5%, 1/8W, Carbon
R648	EP14X103	10K ohm, 5%, 1/8W, Carbon
R649	EP14X398	15K ohm, 5%, 1/8W, Carbon
R650	EP14X125	47K ohm, 5%, 1/8W, Carbon
R651	EP14X103	10K ohm, 5%, 1/8W, Carbon
R652	EP14X398	15K ohm, 5%, 1/8W, Carbon
R653	EP14X125	47K ohm, 5%, 1/8W, Carbon
R654	EP14X125	47K ohm, 5%, 1/8W, Carbon
R655	ES14X71	1K ohm, 5%, 1/8W, Carbon
R656	ES14X71	1K ohm, 5%, 1/8W, Carbon
R657	EP14X125	47K ohm, 5%, 1/8W, Carbon
R658	ES14X71	1K ohm, 5%, 1/8W, Carbon
R660	EP14X429	16K ohm, 5%, 1/8W, Carbon
R661	EP14X370	9.1K ohm, 5%, 1/8W, Carbon
R662	EP14X125	47K ohm, 5%, 1/8W, Carbon
R663	EP14X125	47K ohm, 5%, 1/8W, Carbon
R664	EP14X398	15K ohm, 5%, 1/8W, Carbon
R665	EP14X379	5.6K ohm, 5%, 1/8W, Carbon
R675	EP14X444	1.2K ohm, 5%, 1/8W, Carbon
R676	EP14X103	10K ohm, 5%, 1/8W, Carbon
R677	EP14X398	15K ohm, 5%, 1/8W, Carbon
R680	EP14X183	3.3K ohm, 5%, 1/8W, Carbon
R681	EP14X183	3.3K ohm, 5%, 1/8W, Carbon
R682	EP14X444	1.2K ohm, 5%, 1/8W, Carbon
R683	EP14X105	100K ohm, 5%, 1/8W, Carbon
R685	EP14X183	3.3K ohm, 5%, 1/8W, Carbon
R686	EP14X183	3.3K ohm, 5%, 1/8W, Carbon
R687	EP14X444	1.2K ohm, 5%, 1/8W, Carbon
R688	EP14X105	100K ohm, 5%, 1/8W, Carbon
R690	EP14X125	47K ohm, 5%, 1/8W, Carbon
R691	EP14X105	100K ohm, 5%, 1/8W, Carbon
R692	EP14X106	1 meg ohm, 5%, 1/8W, Carbon
R701	EP14X125	47K ohm, 5%, 1/8W, Carbon
R702	EP14X125	47K ohm, 5%, 1/8W, Carbon
R703	ES14X70	100 ohm, 5%, 1/8W, Carbon
R704	EP14X125	47K ohm, 5%, 1/8W, Carbon
R705	ES14X65	4.7K ohm, 5%, 1/8W, Carbon
R706	EP14X103	10K ohm, 5%, 1/8W, Carbon
R708	ES14X65	4.7K ohm, 5%, 1/8W, Carbon
R711	EP14X122	7.5K ohm, 5%, 1/8W, Carbon
R712	EP14X125	47K ohm, 5%, 1/8W, Carbon
R714	EP14X398	15K ohm, 5%, 1/8W, Carbon
R715	ES14X56	33 ohm, 5%, 1/8W, Carbon
R716	ES14X70	100 ohm, 5%, 1/8W, Carbon
R718	ES14X64	2K ohm, 5%, 1/8W, Carbon
R719	EP14X103	10K ohm, 5%, 1/8W, Carbon
R720	EP14X103	10K ohm, 5%, 1/8W, Carbon
R722	ES14X64	2K ohm, 5%, 1/8W, Carbon
R723	ES14X64	2K ohm, 5%, 1/8W, Carbon
R724	EP14X413	12K ohm, 5%, 1/8W, Carbon
R725	ES14X64	2K ohm, 5%, 1/8W, Carbon
R726	EP14X370	9.1K ohm, 5%, 1/8W, Carbon
R727	ES14X71	1K ohm, 5%, 1/8W, Carbon
R728	EP14X436	3.6K ohm, 5%, 1/8W, Carbon
R729	EP14X188	15 ohm, 5%, 1/8W, Carbon
R730	ES14X64	2K ohm, 5%, 1/8W, Carbon
R731	EP14X244	30 ohm, 5%, 1/8W, Carbon
R734	ES14X70	100 ohm, 5%, 1/8W, Carbon
R749	EP14X136	33K ohm, 5%, 1/8W, Carbon
R750	EP14X103	10K ohm, 5%, 1/8W, Carbon
R751	EP14X103	10K ohm, 5%, 1/8W, Carbon
R752	EP14X103	10K ohm, 5%, 1/8W, Carbon
R753	EP14X103	10K ohm, 5%, 1/8W, Carbon
R754	EP14X103	10K ohm, 5%, 1/8W, Carbon
R755	EP14X103	10K ohm, 5%, 1/8W, Carbon
R756	EP14X103	10K ohm, 5%, 1/8W, Carbon
R757	EP14X103	10K ohm, 5%, 1/8W, Carbon
R758	EP14X103	10K ohm, 5%, 1/8W, Carbon
R759	EP14X398	15K ohm, 5%, 1/8V
R760	EP14X398	15K ohm, 5%, 1/8V
R761	EP14X398	15K ohm, 5%, 1/8V
R762	EP14X398	15K ohm, 5%, 1/8V
R763	EP14X398	15K ohm, 5%, 1/8V
R764	EP14X398	15K ohm, 5%, 1/8V
R765	EP14X398	15K ohm, 5%, 1/8V
R766	EP14X398	15K ohm, 5%, 1/8V
R767	EP14X398	15K ohm, 5%, 1/8V
R768	EP14X444	1.2K ohm, 5%, 1/8
R770	EP14X103	10K ohm, 5%, 1/8V
R771	ES14X71	1K ohm, 5%, 1/8W
R772	EP14X413	12K ohm, 5%, 1/8V
R773	EP14X103	10K ohm, 5%, 1/8V
R774	ES14X71	1K ohm, 5%, 1/8W
R775	EP14X444	1.2K ohm, 5%, 1/8
R776	EP14X103	10K ohm, 5%, 1/8V
R777	EP14X394	6.2K ohm, 5%, 1/8

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
R769	EP49X468	1K ohm, 20%

INTEGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
IC100	EP84X230	3 TERMINAL VOLT
IC101	EP15X90	VOLTAGE REGUL
IC500	EP84X257	PRESCALER/PLL
IC600	EP84X222	CUSTOM
IC601	EP84X261	MICROCOMPUTE
IC700	EP84X258	INTERFACE
IC800	EP84X256	MEMORY

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q500	EP15X232	Darlington, Silicon,
Q510	EP15X233	Silicon, NPN, Chip
Q605	EP15X231	Silicon, PNP, Chip
Q610	EP15X231	Silicon, PNP, Chip
Q615	EP15X233	Silicon, NPN, Chip
Q640	EP15X231	Silicon, PNP, Chip
Q645	EP15X231	Silicon, PNP, Chip
Q650	EP15X233	Silicon, NPN, Chip
Q655	EP15X233	Silicon, NPN, Chip
Q660	EP15X233	Silicon, NPN, Chip
Q665	EP15X233	Silicon, NPN, Chip
Q670	EP15X231	Silicon, PNP, Chip
Q675	EP15X231	Silicon, PNP, Chip
Q680	EP15X231	Silicon, PNP, Chip
Q685	EP15X231	Silicon, PNP, Chip
Q690	EP15X233	Silicon, NPN, Chip
Q700	EP15X233	Silicon, NPN, Chip
Q705	EP15X233	Silicon, NPN, Chip
Q710	EP15X233	Silicon, NPN, Chip
Q715	EP15X233	Silicon, NPN, Chip
Q720	EP15X233	Silicon, NPN, Chip
Q725	EP15X233	Silicon, NPN, Chip
Q730	EP15X231	Silicon, PNP, Chip
Q770	EP15X231	Silicon, PNP, Chip
Q775	EP15X231	Silicon, PNP, Chip

REF. NO.	PART NO.	DESCRIPTION
R759	EP14X398	15K ohm, 5%, 1/8W, Carbon
R760	EP14X398	15K ohm, 5%, 1/8W, Carbon
R761	EP14X398	15K ohm, 5%, 1/8W, Carbon
R762	EP14X398	15K ohm, 5%, 1/8W, Carbon
R763	EP14X398	15K ohm, 5%, 1/8W, Carbon
R764	EP14X398	15K ohm, 5%, 1/8W, Carbon
R765	EP14X398	15K ohm, 5%, 1/8W, Carbon
R766	EP14X398	15K ohm, 5%, 1/8W, Carbon
R767	EP14X398	15K ohm, 5%, 1/8W, Carbon
R768	EP14X444	1.2K ohm, 5%, 1/8W, Carbon
R770	EP14X103	10K ohm, 5%, 1/8W, Carbon
R771	ES14X71	1K ohm, 5%, 1/8W, Carbon
R772	EP14X413	12K ohm, 5%, 1/8W, Carbon
R773	EP14X103	10K ohm, 5%, 1/8W, Carbon
R774	ES14X71	1K ohm, 5%, 1/8W, Carbon
R775	EP14X444	1.2K ohm, 5%, 1/8W, Carbon
R776	EP14X103	10K ohm, 5%, 1/8W, Carbon
R777	EP14X394	6.2K ohm, 5%, 1/8W, Carbon

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
R769	EP49X468	1K ohm, 20%

INTEGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
IC100	EP84X230	3 TERMINAL VOLTAGE REGULATOR
IC101	EP15X90	VOLTAGE REGULATOR
IC500	EP84X257	PRESCALER/PLL
IC600	EP84X222	CUSTOM
IC601	EP84X261	MICROCOMPUTER
IC700	EP84X258	INTERFACE
IC800	EP84X256	MEMORY

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q500	EP15X232	Darlington, Silicon, NPN, Chip
Q510	EP15X233	Silicon, NPN, Chip
Q605	EP15X231	Silicon, PNP, Chip
Q610	EP15X231	Silicon, PNP, Chip
Q615	EP15X233	Silicon, NPN, Chip
Q640	EP15X231	Silicon, PNP, Chip
Q645	EP15X231	Silicon, PNP, Chip
Q650	EP15X233	Silicon, NPN, Chip
Q655	EP15X233	Silicon, NPN, Chip
Q660	EP15X233	Silicon, NPN, Chip
Q665	EP15X233	Silicon, NPN, Chip
Q670	EP15X231	Silicon, PNP, Chip
Q675	EP15X231	Silicon, PNP, Chip
Q680	EP15X231	Silicon, PNP, Chip
Q685	EP15X231	Silicon, PNP, Chip
Q690	EP15X233	Silicon, NPN, Chip
Q700	EP15X233	Silicon, NPN, Chip
Q705	EP15X233	Silicon, NPN, Chip
Q710	EP15X233	Silicon, NPN, Chip
Q715	EP15X233	Silicon, NPN, Chip
Q720	EP15X233	Silicon, NPN, Chip
Q725	EP15X233	Silicon, NPN, Chip
Q730	EP15X231	Silicon, PNP, Chip
Q770	EP15X231	Silicon, PNP, Chip
Q775	EP15X231	Silicon, PNP, Chip

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y507	EP16X161	Zener, 30V
Y622	ES16X27	Silicon
Y624	ES16X27	Silicon
Y640	ES16X27	Silicon
Y657	EP16X166	Zener, 6.8V
Y690	ES16X27	Silicon
Y700	ES16X27	Silicon
Y704	EP16X165	Zener, 3.3V
Y714	ES16X27	Silicon
Y715	ES16X27	Silicon
Y717	ES16X27	Silicon
Y725	ES16X27	Silicon
Y728	ES16X27	Silicon
Y729	ES16X27	Silicon
Y733	ES16X27	Silicon
Y740	ES16X27	Silicon
Y741	ES16X27	Silicon
Y770	ES16X27	Silicon
Y771	ES16X27	Silicon
Y772	ES16X27	Silicon
Y775	ES16X27	Silicon
Y776	ES16X27	Silicon

COILS

REF. NO.	PART NO.	DESCRIPTION
L502	EP36X136	CHOKE-15μh, 10%
L635	EP36X499	CHOKE-1.2μh, 10%
X500	EP41X68	CRYSTAL-Qtz Filter

MISCELLANEOUS

PART NO.	DESCRIPTION
EP8X127	JACK-Phono
EP34X41	SOCKET-Transistor

REMOTE CONTROL TRANSMITTER

EP62X204

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y901	EP16X33	Infrared
Y902	EP16X33	Infrared

MISCELLANEOUS

PART NO.	DESCRIPTION
Common	BATTERY-I.5V, AAA
EP47X67	BUTTON-Program Lock, W/Switch Contact
EP47X70	BUTTONS-Rubber Contact Pad
EP4X533	CASE BOTTOM-Plastic
EP4X534	CASE LENS-Lexan
EP4X536	CASE TOP-Plastic
EP2X569	CLIPS-Battery Contacts, Positive, & Negative
EP2X650	CLIP-Battery Bridge
EP4X542	COVER-Battery, Plastic
EP93X592	MAIN CIRCUIT BOARD-Complete (No Parts Available For Repair)

REMOTE CONTROL RECEIVER CIRCUIT BOARD

EP93X582

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C701	EP31X149	10μf, 20%, 35V, Elect.
C702	EP31X149	10μf, 20%, 35V, Elect.
C703	EP31X149	10μf, 20%, 35V, Elect.
C704	EP25X189	3300pf, 5%, 100V, Polypropylene
C705	EP31X162	100μf, 20%, 25V, Elect.
C706	EP25X171	.033μf, 20%, 50V, Polyester
C707	EP18X204	470pf, 10%, 50V, HiK, Cer. Disc

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R701	EP14X284	IK ohm, 5%, I/8W, Carbon
R702	EP14X105	100K ohm, 5%, I/4W, Carbon
R703	EP14X441	24 ohm, 5%, I/4W, Carbon
R704	EP14X105	100K ohm, 5%, I/4W, Carbon
R705	ES14X70	100 ohm, 5%, I/4W, Carbon

INTEGRATED CIRCUIT

REF. NO.	PART NO.	DESCRIPTION
IC701	EP84X227	Infrared Preamplifier

DIODE

REF. NO.	PART NO.	DESCRIPTION
Y701	EP16X157	Photo, Silicon

COIL

REF. NO.	PART NO.	DESCRIPTION
L701	EP36X447	COIL-Tuning

MISCELLANEOUS

PART NO.	DESCRIPTION
EP2X552	LENS-Remote Control

TOP TUNING CIRCUIT BOARD

EP93X630

RESISTOR

REF. NO.	PART NO.	DESCRIPTION
TR03	EP14X385	750 ohm, 5%, 1/4W, Carbon

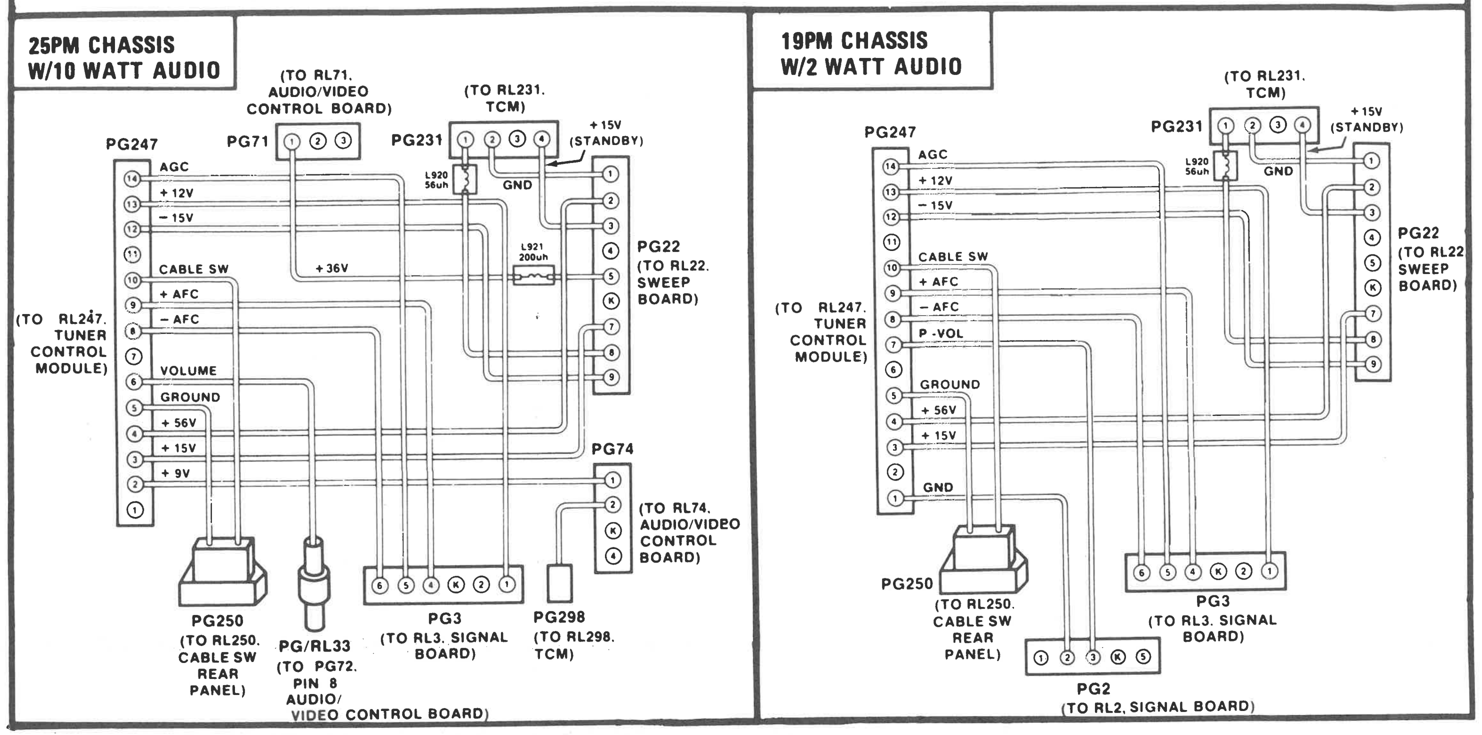
DIODES

REF. NO.	PART NO.	DESCRIPTION
TY01	EP41X14	L.E.D.-VIR
TY02	EP41X14	L.E.D.-Bilingual, Red
TY03	EP41X14	L.E.D.-Stereo, Red

MISCELLANEOUS

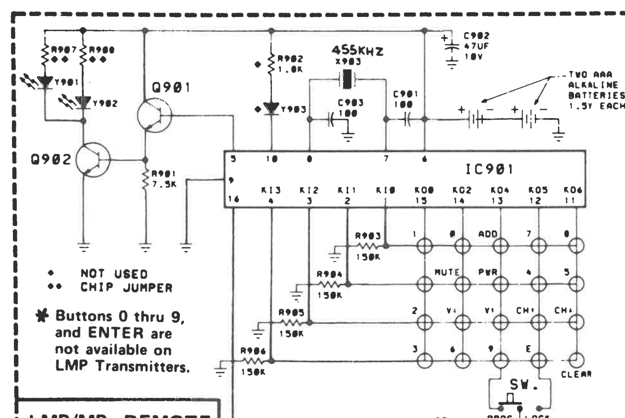
REF. NO.	PART NO.	DESCRIPTION
RL12	EP8X30	CONNECTOR-1 Pin
RL17	EP8X90	CONNECTOR-5 Pos.
	EP3X55	SPACER-L.E.D.
SW01	EP39X150	SWITCH-ON/Off
SW02	EP39X150	SWITCH-Vol Up
SW03	EP39X150	SWITCH-Vol Down
SW04	EP39X150	SWITCH-Channel Up
SW05	EP39X150	SWITCH-Channel Down
SW06	EP39X207	SWITCH-VIR
SW08	EP39X207	SWITCH-Loudness
SW09	EP39X150	SWITCH-Display Screen/Clear
SW11	EP39X150	SWITCH-TV/Video

PM CHASSIS INTERFACE CONNECTIONS TO LMP/MP-130 TUNER CONTROL MODULE



RECEIVING BAND	BAND I LO-VHF (CHANNEL 2-6) CABLE 64-66	BAND II HI-VHF (CHANNEL 7-13) & CABLE MIDBAND A–2, A–1, (A - I) CH. 60, 61, (14 - 22)	BAND III CABLE SUPERBAND CH. 23 - 36 (J - W) CABLE HYPERBAND CH. 37 - 59	BAND IV UHF (CHANNEL 14 - 83)
SW1 +/-10%	-15V	-15V	+9V	-15V
SW2 +/-10%	-15V	+9V	+9V	+9V
VHF RF & OSC B+ +/-10%	+12V	+12V	+12V	0V
MIXER B+ +/-10%	+12V	+12V	+12V	+12V
UHF B+ +/-10%	0V	0V	0V	+12V
AGC @ MAX GAIN	8.0V	8.0V	8.0V	8.0V
TUNING VOLTAGE	0-30	0-30	0-30	0-30

UHF/VHF "BANDSWITCHING VOLTAGE CHART"



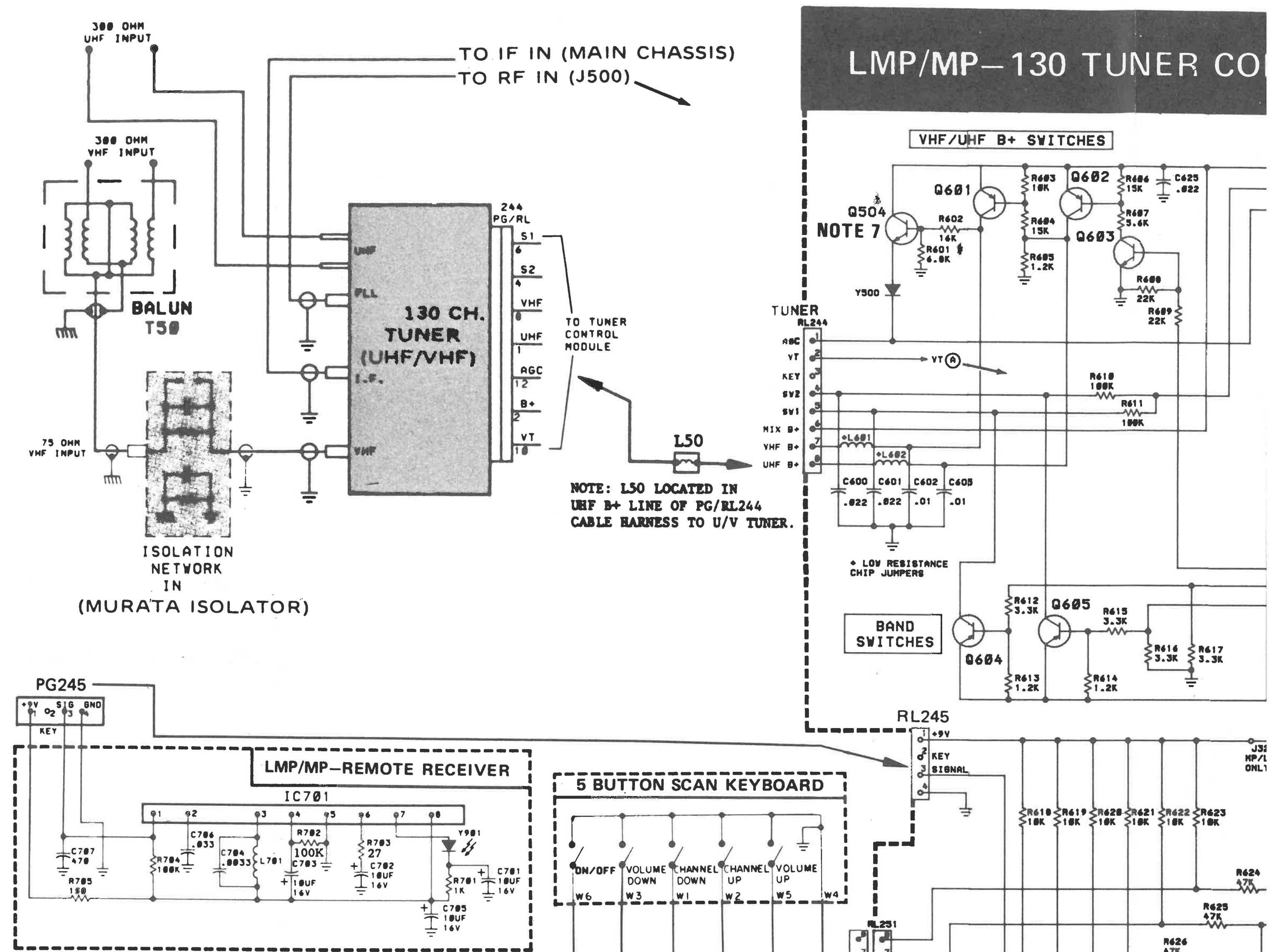
LMP/MP–REMOTE TRANSMITTER

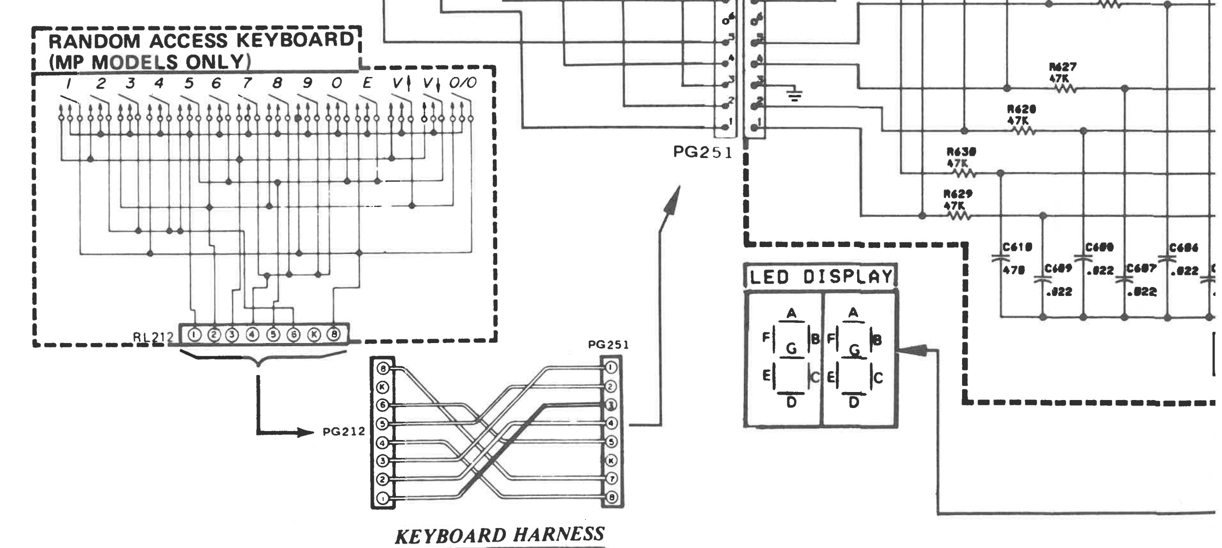
KEYBOARD (Pin to Button Assignment)

RANDOM ACCESS	5 BUTTON	PIN
7,8,9,0	N/C	8
ON/OFF,1,4,9,E	CH ↓	7
KEY	KEY	6
2,3,4,5	ON/OFF	5
ON/OFF,V,3,6,0	CH↑	4
COM	COM	3
V↓,5,6,0,E	VOL↑	2
V↑,V↓,1,2,7	VOL ↓	1

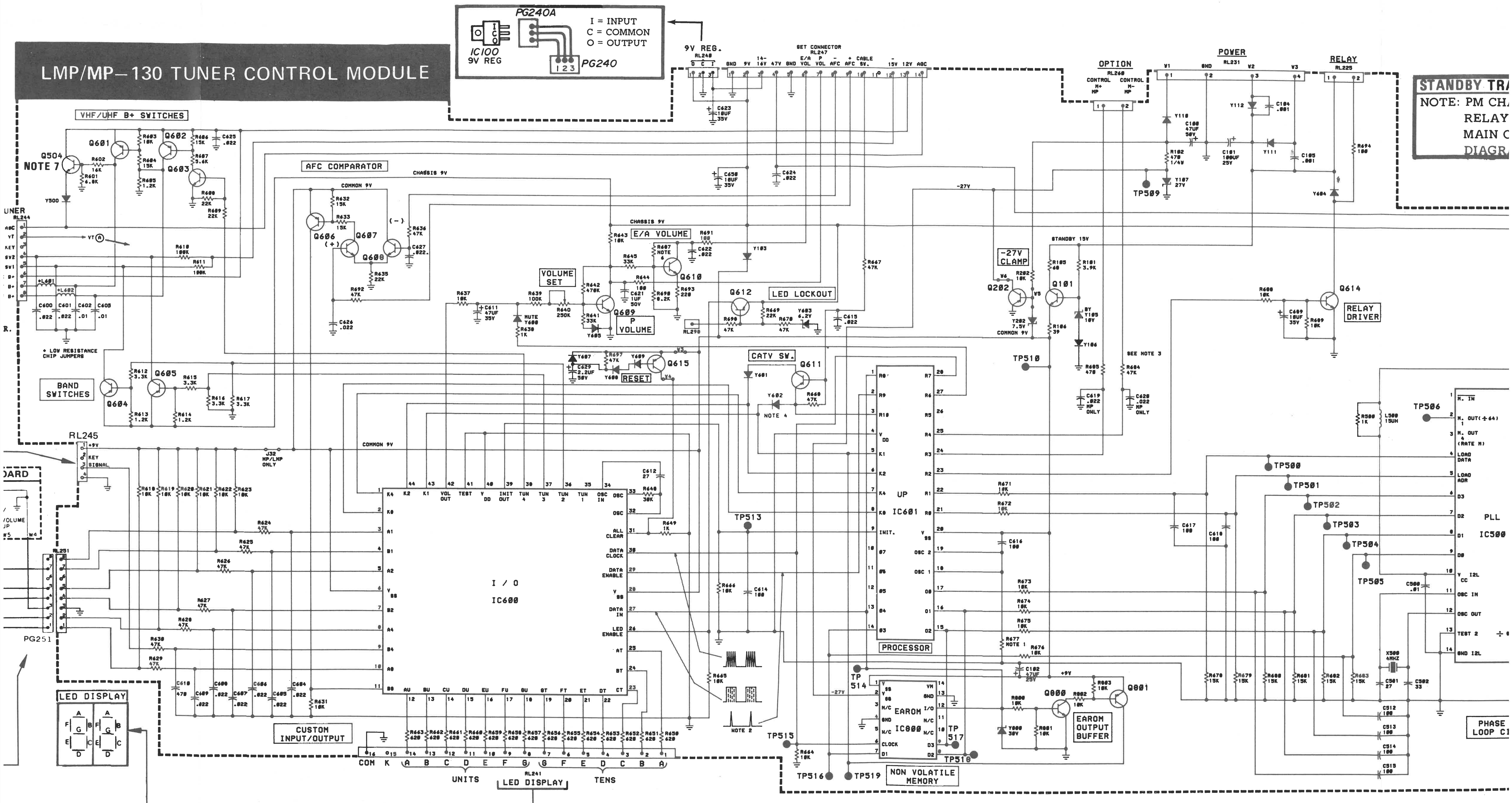
NOTES

1. SELECT FOR;
   TMS1100 43K FOR LMP
   TMS1400 30K FOR MP
2. SIGNAL WAVEFORMS SET ON,LOCKED ON CHANNEL.
3. OPTION CIRCUIT NOT INSTALLED ON SOME MODELS.
4. ADD Y602 FOR RANDOM ACCESS ON MP.
5. UNLESS OTHERWISE NOTED,ALL CAPACITANCE VALUES LESS THAN 1 ARE IN MICROFARADS; ALL VALUES GREATER THAN 1 ARE IN PICO-FARADS.
6. 36K-MP
   22K-LMP
7. NOT NEEDED ON 130 CHANNEL TCM,112 CHAN-NEL TCM ONLY.





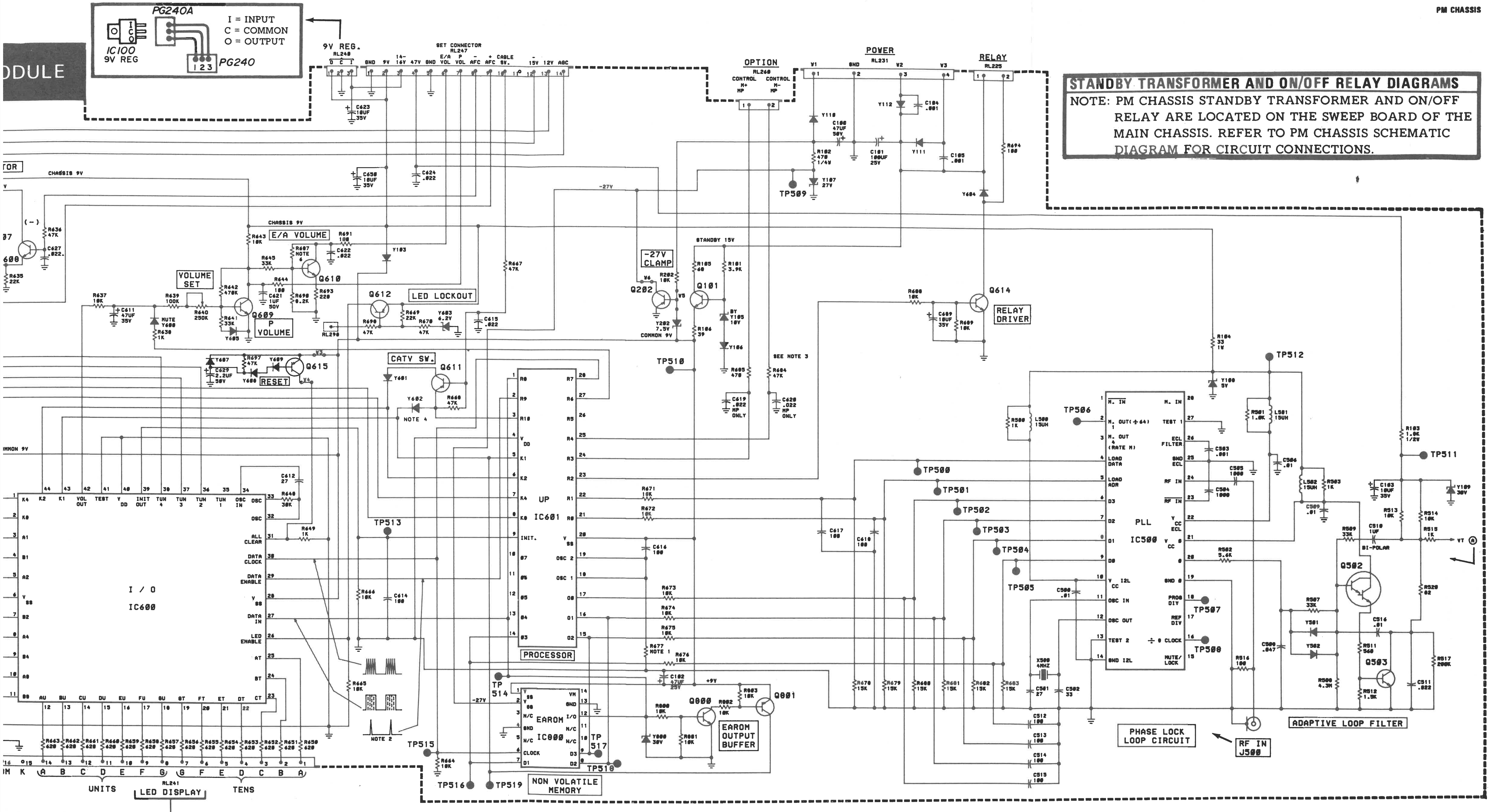
LMP/MP-130 ELECTRONIC TUNING SYSTEM



)NIC TUNING SYSTEM SCHEMATIC DIAGRAM

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN COMPONENT REPLACEMENT IS MA
AREAS OF THE SCHEMATIC DIAGRAM DESIGNATES COMPONENTS IN WHICH SAFETY CA
PARTS BE USED FOR REPLACEMENT OF COMPONENTS WHICH ARE DESIGNATED BY A
USE OF SUBSTITUTE REPLACEMENT PARTS WHICH DO NOT HAVE THE SAME SAFETY CH
FIRE OR OTHER HAZARDS, OR EXCESSIVE X-RADIATION.

29-2606-83



STANDBY TRANSFORMER AND ON/OFF RELAY DIAGRAMS

NOTE: PM CHASSIS STANDBY TRANSFORMER AND ON/OFF RELAY ARE LOCATED ON THE SWEEP BOARD OF THE MAIN CHASSIS. REFER TO PM CHASSIS SCHEMATIC DIAGRAM FOR CIRCUIT CONNECTIONS.

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN COMPONENT REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. THE (★) BESIDE A PART IN THE PARTS LIST AND THE SHADED AREAS OF THE SCHEMATIC DIAGRAM DESIGNATES COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE. IT IS PARTICULARLY RECOMMENDED THAT EXACT CATALOGED PARTS BE USED FOR REPLACEMENT OF COMPONENTS WHICH ARE DESIGNATED BY A (★) IN THE PARTS LIST AND THE SHADED AREAS ON THE SCHEMATIC DIAGRAM.
USE OF SUBSTITUTE REPLACEMENT PARTS WHICH DO NOT HAVE THE SAME SAFETY CHARACTERISTICS AS RECOMMENDED IN FACTORY SERVICE INFORMATION MAY CREATE SHOCK, FIRE OR OTHER HAZARDS, OR EXCESSIVE X-RADIATION.

MATIC DIAGRAM

LMP/MP-130 ELECTRONIC TUNING SYSTEM REPLACEMENT PARTS LIST

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN COMPONENT REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. THE (*) BESIDE A PART IN THE PARTS LIST AND THE SHADED AREAS OF THE SCHEMATIC DIAGRAM DESIGNATES COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE. IT IS PARTICULARLY RECOMMENDED THAT EXACT CATALOGED PARTS BE USED FOR REPLACEMENT OF COMPONENTS WHICH ARE DESIGNATED BY A (*) IN THE PARTS LIST AND THE SHADED AREAS ON THE SCHEMATIC DIAGRAM.
USE OF SUBSTITUTE REPLACEMENT PARTS WHICH DO NOT HAVE THE SAME SAFETY CHARACTERISTICS AS RECOMMENDED IN FACTORY SERVICE INFORMATION MAY CREATE SHOCK, FIRE OR OTHER HAZARDS, OR EXCESSIVE X-RADIATION.

LMP130 TUNING SYSTEM

INTEGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
IC100	EW84X230	3 Terminal 9V Regulator

COILS

REF. NO.	PART NO.	DESCRIPTION
L50	ES36X82	CHOKE-220uh, 10%
L920	EP36X33	CHOKE-56uh, 5% (19" & 25" PM)
L921	EP36X48	CHOKE-200uh, 5% (25" PM Only)

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
	SEE MODEL PAGE	CHANNEL READOUT DISPLAY-Green
	SEE MODEL PAGE	KEYBOARD-On/Off, Vol., Channel Select
	EP93X465	LMP130 TUNER CONTROL BOARD
	EP93X480	REMOTE CONTROL RECEIVER
	EP62X164	REMOTE CONTROL TRANSMITTER ASM.
	*EP93X502	UHF/VHF TUNER

MP130 TUNING SYSTEM

INTEGRATED CIRCUIT

REF. NO.	PART NO.	DESCRIPTION
IC100	EW84X230	3 Terminal 9V Regulator

COILS

REF. NO.	PART NO.	DESCRIPTION
L50	ES36X82	CHOKE-220uh, 10%
L920	EP36X33	CHOKE-56uh, 5%
L921	EP36X48	CHOKE-200uh, 5% (25" PM Only)

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
	SEE MODEL PAGE	CHANNEL READOUT DISPLAY-Green
RL59	EP8X43	CONNECTOR-2 Pins
	EP93X464	MP130 TUNER CONTROL BOARD
	EP93X482	REMOTE CONTROL RECEIVER
	EP62X165	REMOTE CONTROL TRANSMITTER ASM.
	*EP93X502	UHF/VHF TUNER

LMP/MP-130 TUNER CONTROL CIRCUIT BOARD

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C100	EP31X47	47uf, 20%, 50V, Elect.
C101	EP31X162	100uf, 20%, 25V, Elect.
C102	EP31X163	47uf, 20%, 25V, Elect.
C103	EP31X149	10uf, 20%, 35V, Elect.
C104	ES22X6	1000pf, 10%, 50V, NPO, Cer. Disc
C105	ES22X6	1000pf, 10%, 50V, NPO, Cer. Disc
C500	EP18X262	.01uf, 10%, 50V, HiK, Cer. Disc
C501	EP18X187	27pf, 5%, 50V, NPO, Cer. Disc
C502	EP18X188	33pf, 5%, 50V, N150, Cer. Disc
C503	ES22X6	1000pf, 10%, 50V, NPO, Cer. Disc
C504	ES22X6	1000pf, 10%, 50V, HiK, Cer. Disc
C505	ES22X6	1000pf, 10%, 50V, HiK, Cer. Disc
C506	EP18X262	.01uf, 10%, 50V, HiK, Cer. Disc
C508	EP25X87	.047uf, 10%, 50V, Polyester
C509	EP18X262	.01uf, 10%, 50V, HiK, Cer. Disc
C510	EP31X164	1uf, 20%, 50V, Bi Polar, Elect.
C511	EP18X287	.022uf, +80-20%, 50V, Cer. Disc
C512	EP18X269	100pf, 10%, 50V, NPO, Cer. Disc
C513	EP18X269	100pf, 10%, 50V, NPO, Cer. Disc
C514	EP18X269	100pf, 10%, 50V, NPO, Cer. Disc
C515	EP18X269	100pf, 10%, 50V, NPO, Cer. Disc
C516	EP25X131	.01uf, 10%, 50V, Polyester
C600	EP18X262	.01uf, 10%, 50V, HiK, Cer. Disc
C601	EP18X262	.01uf, 10%, 50V, HiK, Cer. Disc
C602	EP18X262	.01uf, 10%, 50V, HiK, Cer. Disc
C603	EP18X262	.01uf, 10%, 50V, HiK, Cer. Disc
C604	EP18X287	.022uf, +80-20%, 50V, Cer. Disc
C605	EP18X287	.022uf, +80-20%, 50V, Cer. Disc
C606	EP18X287	.022uf, +80-20%, 50V, Cer. Disc
C607	EP18X287	.022uf, +80-20%, 50V, Cer. Disc
C608	EP18X287	.022uf, +80-20%, 50V, Cer. Disc
C609	EP18X287	.022uf, +80-20%, 50V, Cer. Disc
C610	EP18X204	470pf, 10%, 50V, Cer. Disc
C611	EP31X170	4.7uf, 20%, 35V, Elect.
C612	EP18X187	27pf, 5%, 50V, NPO, Cer. Disc
C614	EP18X269	100pf, 10%, 50V, NPO, Cer. Disc
C615	EP18X287	.022uf, +80-20%, 50V, Cer. Disc
C616	EP18X269	100pf, 10%, 50V, NPO, Cer. Disc
C617	EP18X269	100pf, 10%, 50V, NPO, Cer. Disc
C618	EP18X269	100pf, 10%, 50V, NPO, Cer. Disc
C619	EP18X287	.022uf, +80-20%, 50V, Cer. Disc (MP130 ONLY)
C620	EP18X287	.022uf, +80-20%, 50V, Cer. Disc (MP130 ONLY)
C621	EP31X166	1uf, 20%, 50V, Elect.
C622	EP18X287	.022uf, +80-20%, 50V, Cer. Disc
C623	EP31X149	10uf, 20%, 35V, Elect.
C624	EP18X287	.022uf, +80-20%, 50V, Cer. Disc
C625	EP18X262	.01uf, 10%, 50V, HiK, Cer. Disc
C626	EP18X287	.022uf, +80-20%, 50V, Cer. Disc
C627	EP18X287	.022uf, +80-20%, 50V, Cer. Disc
C629	EP31X173	2.2uf, 20%, 50V, Elect.
C650	EP31X149	10uf, 20%, 35V, Elect.
C689	EP31X149	10uf, 20%, 35V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R101	Common	3.9K ohm, 5%, 1/8W, Carbon
R102	ES14X58	470 ohm, 5%, 1/4W, Carbon
R103	Common	1.8K ohm, 5%, 1/2W, Carbon
R104	EP14X209	33 ohm, 5%, 1W, Metal Oxide
R105	EP14X182	68 ohm, 5%, 1/4W, Carbon
R106	Common	39 ohm, 5%, 1/8W, Carbon
R202	EP14X284	10K ohm, 5%, 1/8W, Carbon
R500	ES14X71	1K ohm, 5%, 1/8W, Carbon
R501	EP14X284	1K ohm, 5%, 1/8W, Carbon
R502	EP14X180	5.6K ohm, 5%, 1/8W, Carbon
R503	EP14X284	1K ohm, 5%, 1/8W, Carbon
R507	EP14X271	33K ohm, 5%, 1/8W, Carbon
R508	Common	4.3meg ohm, 5%, 1/4W, Carbon
R509	EP14X271	33K ohm, 5%, 1/8W, Carbon
R511	ES14X59	560 ohm, 5%, 1/8W, Carbon
R512	ES14X62	1.5K ohm, 5%, 1/8W, Carbon
R513	EP14X284	10K ohm, 5%, 1/8W, Carbon
R514	EP14X284	10K ohm, 5%, 1/8W, Carbon
R515	ES14X71	1K ohm, 5%, 1/8W, Carbon
R516	ES14X70	100 ohm, 5%, 1/8W, Carbon
R517	Common	200K ohm, 5%, 1/8W, Carbon
R520	EP14X212	82 ohm, 5%, 1/8W, Carbon
R601	Common	6.2K ohm, 5%, 1/8W, Carbon
R602	EP14X271	16K ohm, 5%, 1/8W, Carbon
R603	EP14X284	10K ohm, 5%, 1/8W, Carbon
R604	EP14X285	15K ohm, 5%, 1/8W, Carbon
R605	Common	1.2K ohm, 5%, 1/8W, Carbon
R606	EP14X285	15K ohm, 5%, 1/8W, Carbon
R607	EP14X180	5.6K ohm, 5%, 1/8W, Carbon
R608	EP14X303	22K ohm, 5%, 1/8W, Carbon
R609	EP14X104	22K ohm, 5%, 1/8W, Carbon
R610	EP14X303	100K ohm, 5%, 1/8W, Carbon
R611	EP14X303	100K ohm, 5%, 1/8W, Carbon
R612	EP14X183	3.3K ohm, 5%, 1/8W, Carbon
R613	Common	1.2K ohm, 5%, 1/8W, Carbon
R614	Common	1.2K ohm, 5%, 1/8W, Carbon
R615	EP14X183	3.3K ohm, 5%, 1/8W, Carbon
R616	EP14X183	3.3K ohm, 5%, 1/8W, Carbon
R617	EP14X183	3.3K ohm, 5%, 1/8W, Carbon
R618	EP14X284	10K ohm, 5%, 1/8W, Carbon
R619	EP14X284	10K ohm, 5%, 1/8W, Carbon
R620	EP14X284	10K ohm, 5%, 1/8W, Carbon
R621	EP14X284	10K ohm, 5%, 1/8W, Carbon
R622	EP14X284	10K ohm, 5%, 1/8W, Carbon
R623	EP14X284	10K ohm, 5%, 1/8W, Carbon
R624	EP14X193	47K ohm, 5%, 1/8W, Carbon
R625	EP14X193	47K ohm, 5%, 1/8W, Carbon
R626	EP14X193	47K ohm, 5%, 1/8W, Carbon
R627	EP14X193	47K ohm, 5%, 1/8W, Carbon
R628	EP14X193	47K ohm, 5%, 1/8W, Carbon
R629	EP14X193	47K ohm, 5%, 1/8W, Carbon
R630	EP14X125	47K ohm, 5%, 1/8W, Carbon
R631	EP14X284	10K ohm, 5%, 1/8W, Carbon
R632	EP14X285	15K ohm, 5%, 1/8W, Carbon
R633	EP14X285	15K ohm, 5%, 1/8W, Carbon
R635	EP14X303	22K ohm, 5%, 1/8W, Carbon
R636	EP14X193	47K ohm, 5%, 1/8W, Carbon
R637	EP14X103	10K ohm, 5%, 1/8W, Carbon
R638	EP14X284	1K ohm, 5%, 1/8W, Carbon
R639	EP14X303	220K ohm, 5%, 1/8W, Carbon
R641	EP14X271	33K ohm, 5%, 1/8W, Carbon
R641A	EP14X105	100K ohm, 5%, 1/4W, Carbon (MP130 ONLY)
R642	EP14X133	470K ohm, 5%, 1/8W, Carbon
R643	EP14X284	10K ohm, 5%, 1/8W, Carbon
R644	ES14X70	100 ohm, 5%, 1/8W, Carbon
R645	EP14X271	33K ohm, 5%, 1/8W, Carbon
R648	Common	30K ohm, 5%, 1/8W, Carbon
R649	ES14X71	
R650	EP14X238	
R651	EP14X238	
R652	EP14X238	
R653	EP14X238	
R654	EP14X238	
R655	EP14X238	
R656	EP14X238	
R657	EP14X238	
R658	EP14X238	
R659	EP14X238	
R660	EP14X238	
R661	EP14X238	
R662	EP14X238	
R663	EP14X238	
R664	EP14X284	
R665	EP14X284	
R666	EP14X284	
R667	EP14X125	
R668	EP14X193	
R669	EP14X303	
R670	EP14X193	
R671	EP14X103	
R672	EP14X103	
R673	EP14X103	
R674	EP14X103	
R675	EP14X103	
R676	EP14X103	
R677	EP14X288	
R677	Common	
R678	EP14X285	
R679	EP14X285	
R680	EP14X285	
R681	EP14X285	
R682	EP14X285	
R683	EP14X285	
R684	EP14X193	
R685	EP14X303	
R687	Common	
R687	EP14X104	
R688	EP14X103	
R689	EP14X284	
R690	EP14X271	
R691	ES14X70	
R692	EP14X193	
R693	Common	
R694	ES14X70	
R697	EP14X193	
R698	EP14X193	
R800	EP14X284	
R801	EP14X284	
R802	EP14X284	
R803	EP14X284	

REF. NO.	PART
R640	EP49X

REF. NO.	PART
IC100	EP84X
IC500	EP84X
IC600	EP84X
IC601	EP84X
IC601	EP84X
IC800	EP84X

RESISTORS

DESCRIPTION
3.9K ohm, 5%, 1/8W, Carbon
470 ohm, 5%, 1/4W, Carbon
1.8K ohm, 5%, 1/2W, Carbon
33 ohm, 5%, 1W, Metal Oxide
68 ohm, 5%, 1/4W, Carbon
39 ohm, 5%, 1/8W, Carbon
10K ohm, 5%, 1/8W, Carbon
1K ohm, 5%, 1/8W, Carbon
1K ohm, 5%, 1/8W, Carbon
5.6K ohm, 5%, 1/8W, Carbon
1K ohm, 5%, 1/8W, Carbon
33K ohm, 5%, 1/8W, Carbon
4.3meg ohm, 5%, 1/4W, Carbon
33K ohm, 5%, 1/8W, Carbon
560 ohm, 5%, 1/8W, Carbon
1.5K ohm, 5%, 1/8W, Carbon
10K ohm, 5%, 1/8W, Carbon
10K ohm, 5%, 1/8W, Carbon
1K ohm, 5%, 1/8W, Carbon
100 ohm, 5%, 1/8W, Carbon
200K ohm, 5%, 1/8W, Carbon
82 ohm, 5%, 1/8W, Carbon
6.2K ohm, 5%, 1/8W, Carbon
16K ohm, 5%, 1/8W, Carbon
10K ohm, 5%, 1/8W, Carbon
15K ohm, 5%, 1/8W, Carbon
1.2K ohm, 5%, 1/8W, Carbon
15K ohm, 5%, 1/8W, Carbon
5.6K ohm, 5%, 1/8W, Carbon
22K ohm, 5%, 1/8W, Carbon
22K ohm, 5%, 1/8W, Carbon
100K ohm, 5%, 1/8W, Carbon
100K ohm, 5%, 1/8W, Carbon
3.3K ohm, 5%, 1/8W, Carbon
1.2K ohm, 5%, 1/8W, Carbon
1.2K ohm, 5%, 1/8W, Carbon
3.3K ohm, 5%, 1/8W, Carbon
3.3K ohm, 5%, 1/8W, Carbon
3.3K ohm, 5%, 1/8W, Carbon
10K ohm, 5%, 1/8W, Carbon
10K ohm, 5%, 1/8W, Carbon
10K ohm, 5%, 1/8W, Carbon
10K ohm, 5%, 1/8W, Carbon
10K ohm, 5%, 1/8W, Carbon
10K ohm, 5%, 1/8W, Carbon
47K ohm, 5%, 1/8W, Carbon
47K ohm, 5%, 1/8W, Carbon
47K ohm, 5%, 1/8W, Carbon
47K ohm, 5%, 1/8W, Carbon
47K ohm, 5%, 1/8W, Carbon
47K ohm, 5%, 1/8W, Carbon
47K ohm, 5%, 1/8W, Carbon
10K ohm, 5%, 1/8W, Carbon
15K ohm, 5%, 1/8W, Carbon
15K ohm, 5%, 1/8W, Carbon
22K ohm, 5%, 1/8W, Carbon
47K ohm, 5%, 1/8W, Carbon
10K ohm, 5%, 1/8W, Carbon
1K ohm, 5%, 1/8W, Carbon
220K ohm, 5%, 1/8W, Carbon
33K ohm, 5%, 1/8W, Carbon
100K ohm, 5%, 1/4W, Carbon (MP130 ONLY)
470K ohm, 5%, 1/8W, Carbon
10K ohm, 5%, 1/8W, Carbon
100 ohm, 5%, 1/8W, Carbon
33K ohm, 5%, 1/8W, Carbon
30K ohm, 5%, 1/8W, Carbon

REF. NO.	PART NO.	DESCRIPTION
R649	ES14X71	1K ohm, 5%, 1/8W, Carbon
R650	EP14X238	620 ohm, 5%, 1/8W, Carbon
R651	EP14X238	620 ohm, 5%, 1/8W, Carbon
R652	EP14X238	620 ohm, 5%, 1/8W, Carbon
R653	EP14X238	620 ohm, 5%, 1/8W, Carbon
R654	EP14X238	620 ohm, 5%, 1/8W, Carbon
R655	EP14X238	620 ohm, 5%, 1/8W, Carbon
R656	EP14X238	620 ohm, 5%, 1/8W, Carbon
R657	EP14X238	620 ohm, 5%, 1/8W, Carbon
R658	EP14X238	620 ohm, 5%, 1/8W, Carbon
R659	EP14X238	620 ohm, 5%, 1/8W, Carbon
R660	EP14X238	620 ohm, 5%, 1/8W, Carbon
R661	EP14X238	620 ohm, 5%, 1/8W, Carbon
R662	EP14X238	620 ohm, 5%, 1/8W, Carbon
R663	EP14X238	620 ohm, 5%, 1/8W, Carbon
R664	EP14X284	10K ohm, 5%, 1/8W, Carbon
R665	EP14X284	10K ohm, 5%, 1/8W, Carbon
R666	EP14X284	10K ohm, 5%, 1/8W, Carbon
R667	EP14X125	47K ohm, 5%, 1/8W, Carbon
R668	EP14X193	47K ohm, 5%, 1/8W, Carbon
R669	EP14X303	22K ohm, 5%, 1/8W, Carbon
R670	EP14X193	47K ohm, 5%, 1/8W, Carbon
R671	EP14X103	10K ohm, 5%, 1/8W, Carbon
R672	EP14X103	10K ohm, 5%, 1/8W, Carbon
R673	EP14X103	10K ohm, 5%, 1/8W, Carbon
R674	EP14X103	10K ohm, 5%, 1/8W, Carbon
R675	EP14X103	10K ohm, 5%, 1/8W, Carbon
R676	EP14X103	10K ohm, 5%, 1/8W, Carbon
R677	EP14X288	30K ohm, 5%, 1/8W, Carbon
R677	Common	43K ohm, 5%, 1/8W, Carbon (LMP130 ONLY)
R678	EP14X285	15K ohm, 5%, 1/8W, Carbon
R679	EP14X285	15K ohm, 5%, 1/8W, Carbon
R680	EP14X285	15K ohm, 5%, 1/8W, Carbon
R681	EP14X285	15K ohm, 5%, 1/8W, Carbon
R682	EP14X285	15K ohm, 5%, 1/8W, Carbon
R683	EP14X285	15K ohm, 5%, 1/8W, Carbon
R684	EP14X193	47K ohm, 5%, 1/8W, Carbon
R685	EP14X303	470 ohm, 5%, 1/8W, Carbon
R687	Common	36K ohm, 5%, 1/4W, Carbon
R687	EP14X104	22K ohm, 5%, 1/4W, Carbon (LMP130 ONLY)
R688	EP14X103	10K ohm, 5%, 1/8W, Carbon
R689	EP14X284	10K ohm, 5%, 1/8W, Carbon
R690	EP14X271	8.2K ohm, 5%, 1/8W, Carbon
R691	ES14X70	100 ohm, 5%, 1/8W, Carbon
R692	EP14X193	47K ohm, 5%, 1/8W, Carbon
R693	Common	220 ohm, 5%, 1/8W, Carbon
R694	ES14X70	100 ohm, 5%, 1/8W, Carbon
R697	EP14X193	47K ohm, 5%, 1/8W, Carbon
R698	EP14X193	47K ohm, 5%, 1/8W, Carbon
R800	EP14X284	10K ohm, 5%, 1/8W, Carbon
R801	EP14X284	10K ohm, 5%, 1/8W, Carbon
R802	EP14X284	10K ohm, 5%, 1/8W, Carbon
R803	EP14X284	10K ohm, 5%, 1/8W, Carbon

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
R640	EP49X486	250K ohm, 20%

INTEGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
IC100	EP84X230	3 TERMINAL VOL. REG.
IC500	EP84X220	PLL/PRESCALE
IC600	EP84X222	CUSTOM
IC601	EP84X234	MP130 CONTROL
IC601	EP84X235	LMP130 CONTROL
IC800	EP84X224	EAROM

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q101	EP15X87	NPN, Silicon
Q202	EP15X48	PNP, Silicon
Q502	EP15X109	NPN, Silicon
Q503	EP15X87	NPN, Silicon
Q601	EP15X225	PNP, Silicon
Q602	EP15X225	PNP, Silicon
Q603	EP15X87	NPN, Silicon
Q604	EP15X48	PNP, Silicon
Q605	EP15X48	PNP, Silicon
Q606	EP15X48	PNP, Silicon
Q607	EP15X88	NPN, Silicon
Q608	EP15X88	NPN, Silicon
Q609	EP15X88	NPN, Silicon
Q610	EP15X88	NPN, Silicon
Q611	EP15X48	PNP, Silicon
Q612	EP15X48	PNP, Silicon
Q614	EP15X87	NPN, Silicon
Q615	EP15X48	PNP, Silicon
Q800	EP15X87	NPN, Silicon
Q801	EP15X48	PNP, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y103	EP57X4	Rectifier
Y105	EP16X155	Zener
Y106	ES16X27	Silicon
Y107	EP16X156	Zener, 27V
Y108	EP16X152	Zener, 5.1V
Y109	EP16X32	Zener, 30V
Y110	EP57X4	Rectifier
Y111	EP57X4	Rectifier
Y112	EP57X4	Rectifier
Y202	EP16X12	Zener, 7.5V
Y500	ES16X27	Silicon
Y501	ES16X27	Silicon
Y502	ES16X27	Silicon
Y600	ES16X27	Silicon
Y601	ES16X27	Silicon
Y603	EP16X153	Zener, 6.2V
Y604	ES16X27	Silicon
Y605	ES16X27	Silicon
Y607	ES16X27	Silicon
Y608	ES16X27	Silicon
Y609	ES16X27	Silicon
Y800	EP16X32	Zener, 30V

COILS

REF. NO.	PART NO.	DESCRIPTION
L500	EP36X136	CHOKE-15uh, 10%
L501	EP36X136	CHOKE-15uh, 10%
L502	EP36X136	CHOKE-15uh, 10%
X500	EP41X68	CRYSTAL-Qzt. Filter

MISCELLANEOUS

PART NO.	DESCRIPTION
EP34X41	SOCKET-IC100

REMOTE CONTROL RECEIVER C

EP93X480/EP93X481/EP93X48

CAPACITORS

REF NO.	PART NO.	DESCRIPTION
C701	EP31X149	10uf, 20%, 35V, Elect.
C702	EP31X149	10uf, 20%, 35V, Elect.
C703	EP31X149	10uf, 20%, 35V, Elect.
C704	EP25X156	3300pf, 5%, 100V, Polypropylene
C705	EP31X163	47uf, 20%, 16V, Elect.
C706	EP25X157	.033uf, 20%, 50V, Polyester
C707	EP18X204	470pf, 10%, 50V, HiK, Cer. Disc

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R701	EP14X284	1K ohm, 5%, 1/8W, Carbon
R702	EP14X105	100K ohm, 5%, 1/8W, Carbon
R703	Common	27 ohm, 5%, 1/8W, Carbon
R704	EP14X105	100K ohm, 5%, 1/8W, Carbon
R705	EP14X187	100 ohm, 5%, 1/8W, Carbon

LMP130 REMOTE CONTROL TRANSMITTER ASM

EP62X164

INTEGRATED CIRCUIT

REF. NO.	PART NO.	DESCRIPTION
IC901	EP84X232	IC-Remote Control Transmitter

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q901	EP15X88	NPN, Silicon
Q902	EP15X88	NPN, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y901	EP16X33	Infrared
Y902	EP16X33	Infrared
Y904	ES16X27	Silicon

MISCELLANEOUS

PART NO.	DESCRIPTION
Common	BATTERY-1.5V, AAA
EP47X55	BUTTON-On/Off, Mute/Vol. Up & Down Channel Up & Down/Add/Clear
EP2X569	CLIPS-Battary Contacts, Positive, Negative & Bridge
EP47X57	CAP-Program Switch
EP4X370	CASE-Top, Bottom, Battery Cover, W/Medallion
EP4X371	COVER-Battery, Plastic
EP93X416	MAIN CIRCUIT BOARD-Complete (No Parts Available For Repair)

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RCUITS

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SCALE

ONTROL
CONTROL

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q101	EP15X87	NPN, Silicon
Q202	EP15X48	PNP, Silicon
Q502	EP15X109	NPN, Silicon
Q503	EP15X87	NPN, Silicon
Q601	EP15X225	PNP, Silicon
Q602	EP15X225	PNP, Silicon
Q603	EP15X87	NPN, Silicon
Q604	EP15X48	PNP, Silicon
Q605	EP15X48	PNP, Silicon
Q606	EP15X48	PNP, Silicon
Q607	EP15X88	NPN, Silicon
Q608	EP15X88	NPN, Silicon
Q609	EP15X88	NPN, Silicon
Q610	EP15X88	NPN, Silicon
Q611	EP15X48	PNP, Silicon
Q612	EP15X48	PNP, Silicon
Q614	EP15X87	NPN, Silicon
Q615	EP15X48	PNP, Silicon
Q800	EP15X87	NPN, Silicon
Q801	EP15X48	PNP, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y103	EP57X4	Rectifier
Y105	EP16X155	Zener
Y106	ES16X27	Silicon
Y107	EP16X156	Zener, 27V
Y108	EP16X152	Zener, 5.1V
Y109	EP16X32	Zener, 30V
Y110	EP57X4	Rectifier
Y111	EP57X4	Rectifier
Y112	EP57X4	Rectifier
Y202	EP16X12	Zener, 7.5V
Y500	ES16X27	Silicon
Y501	ES16X27	Silicon
Y502	ES16X27	Silicon
Y600	ES16X27	Silicon
Y601	ES16X27	Silicon
Y603	EP16X153	Zener, 6.2V
Y604	ES16X27	Silicon
Y605	ES16X27	Silicon
Y607	ES16X27	Silicon
Y608	ES16X27	Silicon
Y609	ES16X27	Silicon
Y800	EP16X32	Zener, 30V

COILS

REF. NO.	PART NO.	DESCRIPTION
L500	EP36X136	CHOKE-15uh, 10%
L501	EP36X136	CHOKE-15uh, 10%
L502	EP36X136	CHOKE-15uh, 10%
X500	EP41X68	CRYSTAL-Qzt. Filter

MISCELLANEOUS

PART NO.	DESCRIPTION
EP34X41	SOCKET-IC100

REMOTE CONTROL RECEIVER CIRCUIT BOARD

EP93X480/EP93X481/EP93X482/EP93X483

CAPACITORS

REF NO.	PART NO.	DESCRIPTION
C701	EP31X149	10uf, 20%, 35V, Elect.
C702	EP31X149	10uf, 20%, 35V, Elect.
C703	EP31X149	10uf, 20%, 35V, Elect.
C704	EP25X156	3300pf, 5%, 100V, Polypropylene
C705	EP31X163	47uf, 20%, 16V, Elect.
C706	EP25X157	.033uf, 20%, 50V, Polyester
C707	EP18X204	470pf, 10%, 50V, HiK, Cer. Disc

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R701	EP14X284	1K ohm, 5%, 1/8W, Carbon
R702	EP14X105	100K ohm, 5%, 1/8W, Carbon
R703	Common	27 ohm, 5%, 1/8W, Carbon
R704	EP14X105	100K ohm, 5%, 1/8W, Carbon
R705	EP14X187	100 ohm, 5%, 1/8W, Carbon

INTEGRATED CIRCUIT

REF. NO.	PART NO.	DESCRIPTION
IC701	EP84X227	Infrared Preamplifier

DIODE

REF. NO.	PART NO.	DESCRIPTION
Y701	EP16X157	Photo, Silicon

COIL

REF. NO	PART NO.	DESCRIPTION
L701	EP36X447	COIL-Tuning

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
RL245	EP8X67	CONNECTOR-4 Pos.
	EP2X552	LENS-Remote Control

LMP130 REMOTE CONTROL TRANSMITTER ASM

EP62X164

INTEGRATED CIRCUIT

REF. NO.	PART NO.	DESCRIPTION
IC901	EP84X232	IC-Remote Control Transmitter

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q901	EP15X88	NPN, Silicon
Q902	EP15X88	NPN, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y901	EP16X33	Infrared
Y902	EP16X33	Infrared
Y904	ES16X27	Silicon

MISCELLANEOUS

PART NO.	DESCRIPTION
Common	BATTERY-1.5V, AAA
EP47X55	BUTTON-On/Off, Mute/Vol. Up & Down Channel Up & Down/Add/Clear
EP2X569	CLIPS-Battary Contacts, Positive, Negative & Bridge
EP47X57	CAP-Program Switch
EP4X370	CASE-Top, Bottom, Battery Cover, W/Medallion
EP4X371	COVER-Battery, Plastic
EP93X416	MAIN CIRCUIT BOARD-Complete (No Parts Available For Repair)

MP130 REMOTE CONTROL TRANSMITTER ASM

EP62X165

INTEGRATED CIRCUIT

REF. NO.	PART NO.	DESCRIPTION
IC901	EP84X232	IC-Remote Control Transmitter

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q901	EP15X88	NPN, Silicon
Q902	EP15X88	NPN, Silicon

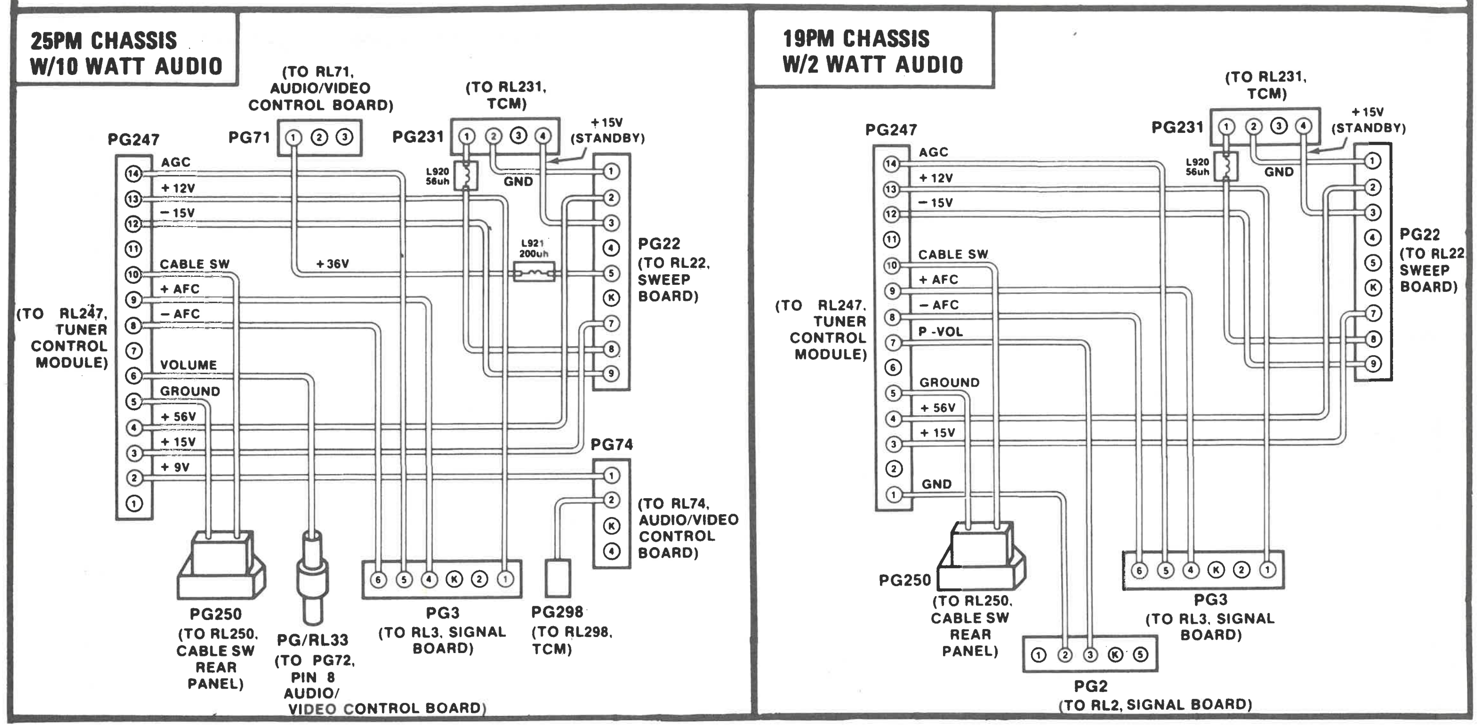
DIODES

REF. NO.	PART NO.	DESCRIPTION
Y901	EP16X33	Infrared
Y902	EP16X33	Infrared
Y904	ES16X27	Silicon

MISCELLANEOUS

PART NO.	DESCRIPTION
Common	BATTERY-1.5V, AAA
EP47X55	BUTTON-On/Off, Mute/Vol. Up & Down Channel Up & Down/Add/Clear
EP2X569	CLIPS-Battary Contacts, Positive, Negative & Bridge
EP47X56	BUTTON-Enter
EP47X57	CAP-Program Switch
EP4X372	CASE-Top, Bottom, Battery Cover, W/Medallion
EP4X373	COVER-Battery, Plastic
EP93X416	MAIN CIRCUIT BOARD-Complete (No Parts Available For Repair)

PM CHASSIS INTERFACE CONNECTIONS TO SET/KMPS-130 TUNER CONTROL MODULE



RECEIVING BAND	LO-VHF (CHANNEL 2-6) CABLE 64-66 BAND I	HI-VHF (CHANNEL 7-13) & CABLE MIDBAND A-2, A-1, (A - I) CH. 60, 61, (14 - 22) BAND II	CABLE SUPERBAND CH. 23 - 36 (J - W) CABLE HYPERBAND CH. 37 - 59 BAND III	UHF (CHANNEL 14 - 83) BAND IV
SW1 +/-10%	-15V	-15V	+9V	-15V
SW2 +/-10%	-15V	+9V	+9V	+9V
VHF RF & OSC B+ +/-10%	+12V	+12V	+12V	0V
MIXER B+ +/-10%	+12V	+12V	+12V	+12V
UHF B+ +/-10%	0V	0V	0V	+12V
AGC @ MAX GAIN	0.0V	0.0V	0.0V	0.0V
TUNING VOLTAGE	0-30	0-30	0-30	0-30

UHF/VHF TUNER "BANDSWITCHING VOLTAGE CHART"

KEYBOARD INPUTS

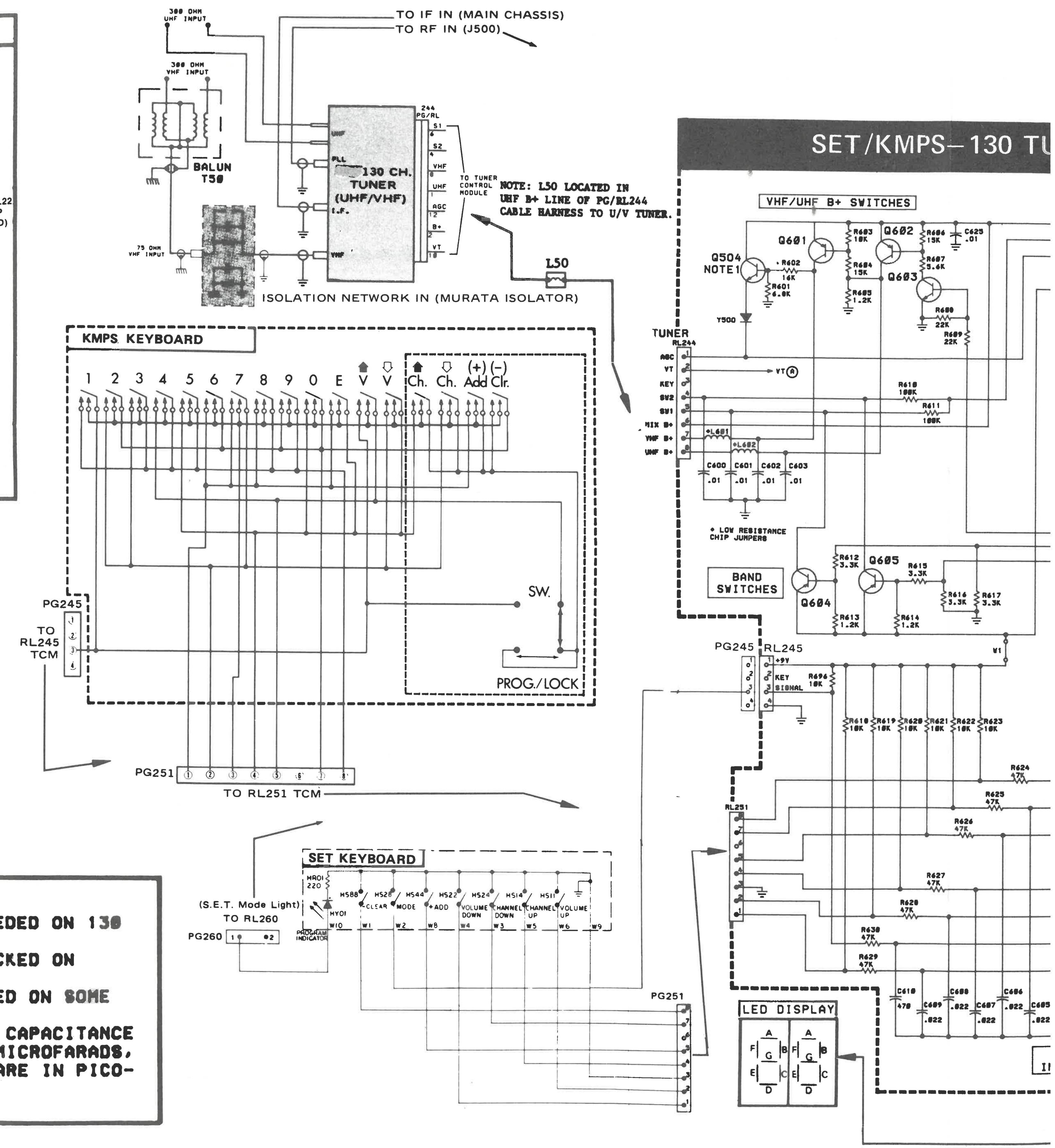
KMPS	S.E.T.	PG245 PIN
N/C	N/C	1
KEY	KEY	2
V↑,1,C↑P,C↓P,ADDP,CLRP	MODE	3
N/C	N/C	4

KEYBOARD INPUTS

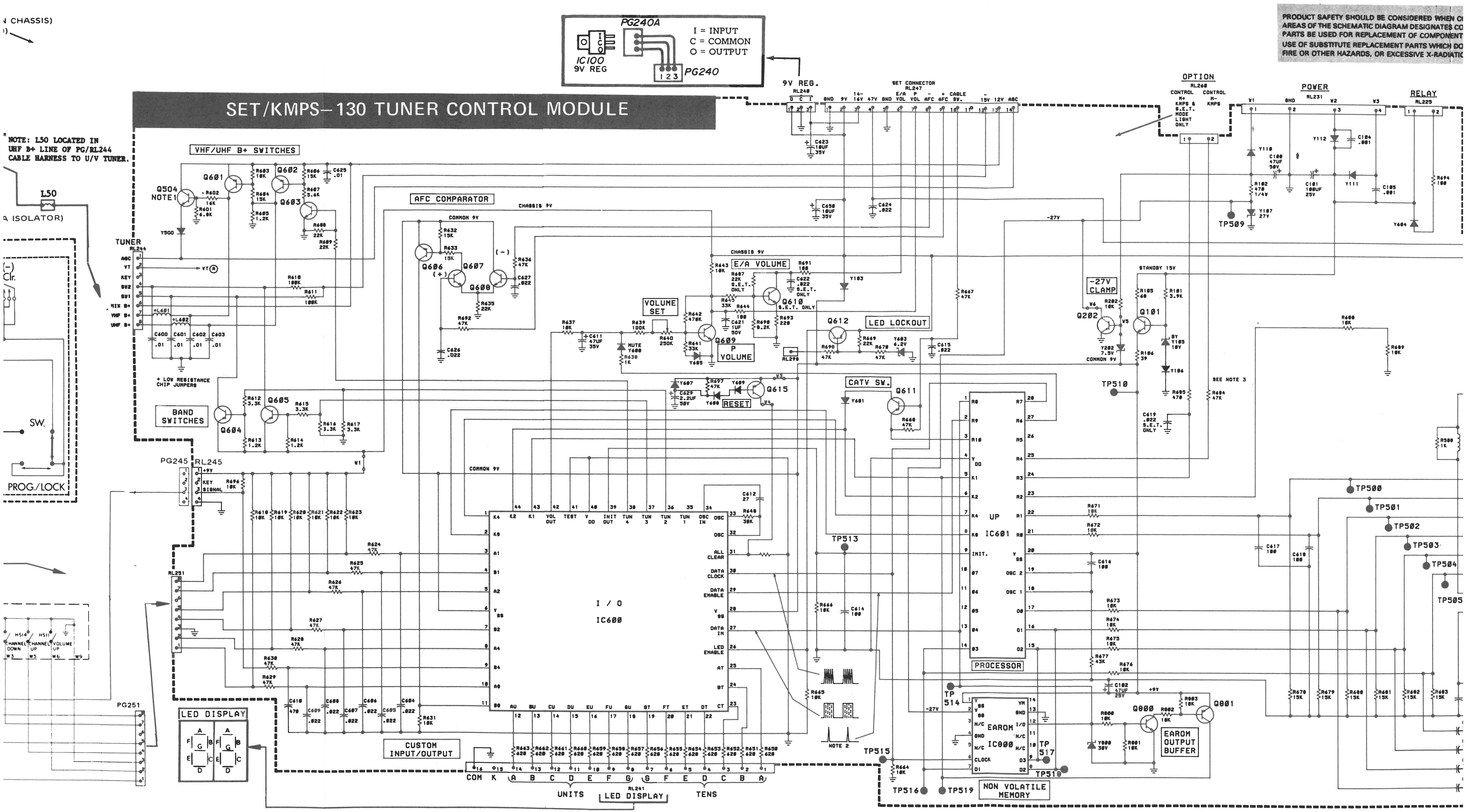
KMPS	S.E.T.	PG251 PIN
1,3,4,5,8,9	CLR	8
2,6,9,0,CLR	CH↓	7
KEY	KEY	6
V↑,4,CH↑L,CH↓L,ADDL,CLRL	+	5
V↓,0,E,CH↑,5	CH↑	4
COM	COM	3
V↓,2,3,7,CH↓	VOL↑	2
6,7,8,E,ADD,	VOL↓	1

NOTES

1. 112CHANNEL TCM ONLY NOT NEEDED ON 130 CHANNEL TCM.
2. SIGNAL WAVEFORMS SET ON,LOCKED ON CHANNEL.
3. OPTION CIRCUIT NOT INSTALLED ON SOME MODELS.
4. UNLESS OTHERWISE NOTED,ALL CAPACITANCE VALUES LESS THAN 1 ARE IN MICROFARADS, ALL VALUES GREATER THAN 1 ARE IN PICO-FARADS.



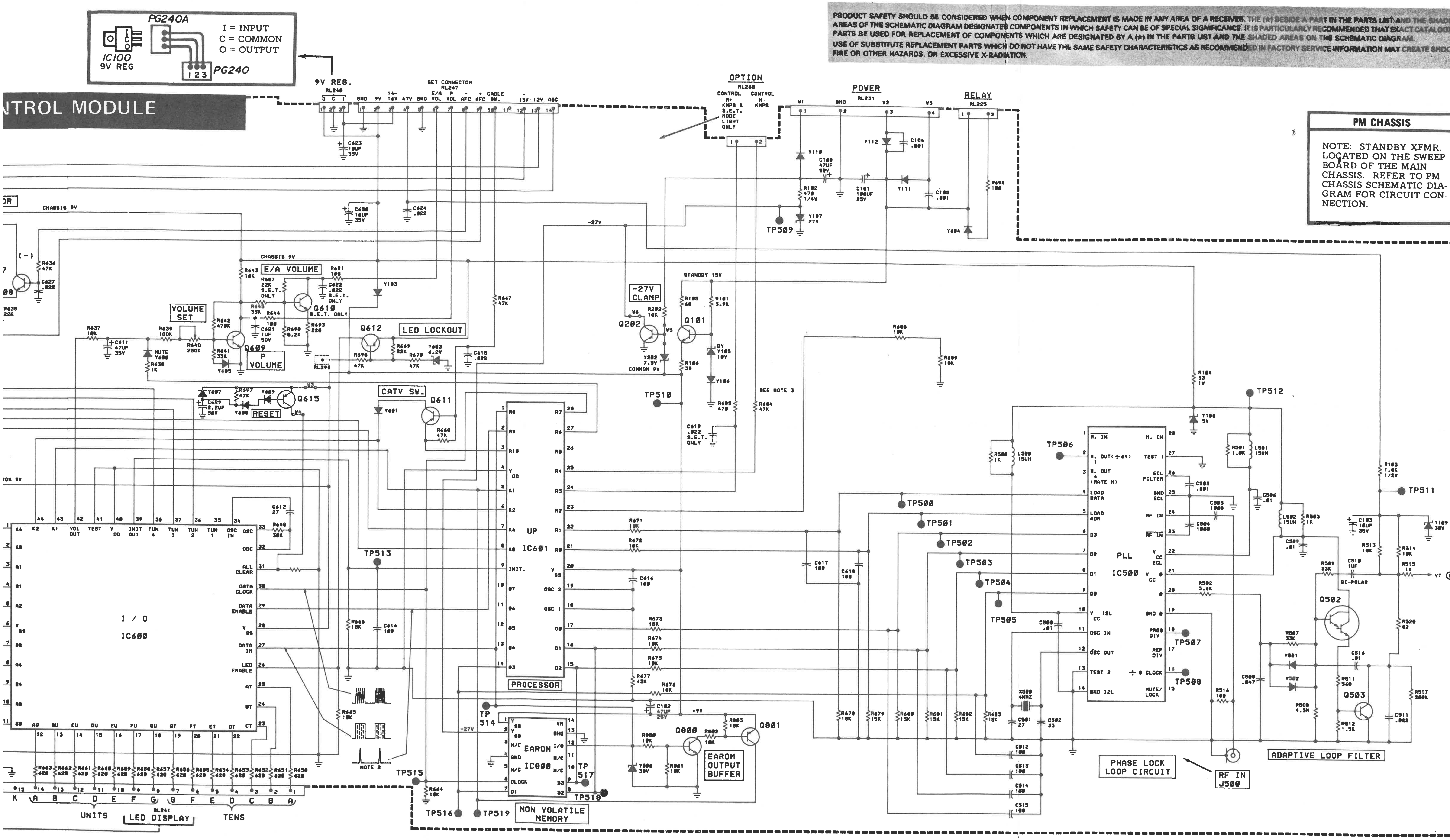
SET/KMPS-130 ELECTRONIC TUN



;ET/KMPS-130 ELECTRONIC TUNING SYSTEM SCHEMATIC DIAGRAM

29-2604-83

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN COMPONENT REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. THE (*) BESIDE A PART IN THE PARTS LIST AND THE SHADED AREAS OF THE SCHEMATIC DIAGRAM DESIGNATES COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE. IT IS PARTICULARLY RECOMMENDED THAT EXACT CATALOGED PARTS BE USED FOR REPLACEMENT OF COMPONENTS WHICH ARE DESIGNATED BY A (*) IN THE PARTS LIST AND THE SHADED AREAS ON THE SCHEMATIC DIAGRAM.
USE OF SUBSTITUTE REPLACEMENT PARTS WHICH DO NOT HAVE THE SAME SAFETY CHARACTERISTICS AS RECOMMENDED IN FACTORY SERVICE INFORMATION MAY CREATE SHOCK, FIRE OR OTHER HAZARDS, OR EXCESSIVE X-RADIATION.



PM CHASSIS

NOTE: STANDBY XFMR. LOCATED ON THE SWEEP BOARD OF THE MAIN CHASSIS. REFER TO PM CHASSIS SCHEMATIC DIAGRAM FOR CIRCUIT CONNECTION.

'STEM SCHEMATIC DIAGRAM

SET/KMPS-130 ELECTRONIC TUNING SYSTEM REPLACEMENT PARTS LIST

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN COMPONENT REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. THE (★) BESIDE A PART IN THE PARTS LIST AND THE SHADED AREAS OF THE SCHEMATIC DIAGRAM DESIGNATES COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE. IT IS PARTICULARLY RECOMMENDED THAT EXACT CATALOGED PARTS BE USED FOR REPLACEMENT OF COMPONENTS WHICH ARE DESIGNATED BY A (★) IN THE PARTS LIST AND THE SHADED AREAS ON THE SCHEMATIC DIAGRAM.
USE OF SUBSTITUTE REPLACEMENT PARTS WHICH DO NOT HAVE THE SAME SAFETY CHARACTERISTICS AS RECOMMENDED IN FACTORY SERVICE INFORMATION MAY CREATE SHOCK, FIRE OR OTHER HAZARDS, OR EXCESSIVE X-RADIATION.

SET130 TUNING SYSTEM

INTEGRATED CIRCUIT

REF. NO.	PART NO.	DESCRIPTION
IC100	EW84X230	3 Terminal 9V Regulator

COIL

REF. NO.	PART NO.	DESCRIPTION
L50	ES36X82	CHOKE-220uh, 10%

MISCELLANEOUS

REF. NO.	PART NO.	DESCRIPTION
	SEE MODEL PAGE	CHANNEL NUMBER READOUT DISPLAY-Green
RL59	EP8X43	CONNECTOR-2 Pins
	SEE MODEL PAGE	KEYBOARD-Vol., & Channel Select
	EP93X466	SET130 TUNER CONTROL CIRCUIT BOARD
	EP41X14	PILOT LIGHT-Red
	★EP93X502	UHF/VHF TUNER

KMPS130 TUNING SYSTEM

INTEGRATED CIRCUIT

REF. NO.	PART NO.	DESCRIPTION
IC100	EW84X230	3 Terminal 9V Regulator

COIL

REF. NO.	PART NO.	DESCRIPTION
L50	ES36X82	CHOKE-220uh, 10%

MISCELLANEOUS

PART NO.	DESCRIPTION
EP8X51	CABLE-Coaxial 7" W/Phono Plugs
SEE MODEL PAGE	CHANNEL NUMBER READOUT DISPLAY-Green
SEE MODEL PAGE	KEYBOARD-Vol., & Channel Select
EP93X467	KMPS130 TUNER CONTROL CIRCUIT BOARD
★EP93X502	UHF/VHF TUNER

SET/KMPS-130 TUNER CONTROL CIRCUIT BOARD

CAPACITORS

REF. NO.	PART NO.	DESCRIPTION
C100	EP31X47	47uf, 20%, 50V, Elect.
C101	EP31X162	100uf, 20%, 25V, Elect.
C102	EP31X163	47uf, 20%, 25V, Elect.
C103	EP31X149	10uf, 20%, 35V, Elect.
C104	ES22X6	1000pf, 10%, 50V, NPO, Cer. Disc
C105	ES22X6	1000pf, 10%, 50V, NPO, Cer. Disc
C500	EP18X262	.01uf, 10%, 50V, HiK, Cer. Disc
C501	EP18X187	27pf, 5%, 50V, NPO, Cer. Disc
C502	EP18X188	33pf, 5%, 50V, N150, Cer. Disc
C503	ES22X6	1000pf, 10%, 50V, NPO, Cer. Disc
C504	ES22X6	1000pf, 10%, 50V, HiK, Cer. Disc
C505	ES22X6	1000pf, 10%, 50V, HiK, Cer. Disc
C506	EP18X262	.01uf, 10%, 50V, HiK, Cer. Disc
C508	EP25X87	.047uf, 10%, 50V, Polyester
C509	EP18X262	.01uf, 10%, 50V, HiK, Cer. Disc
C510	EP31X164	1uf, 20%, 50V, Bi Polar, Elect.
C511	EP18X287	.022uf, +80-20%, 50V, Cer. Disc
C512	EP18X269	100pf, 10%, 50V, NPO, Cer. Disc
C513	EP18X269	100pf, 10%, 50V, NPO, Cer. Disc
C514	EP18X269	100pf, 10%, 50V, NPO, Cer. Disc
C515	EP18X269	100pf, 10%, 50V, NPO, Cer. Disc
C516	EP25X131	.01uf, 10%, 50V, Polyester
C600	EP18X262	.01uf, 10%, 50V, HiK, Cer. Disc
C601	EP18X262	.01uf, 10%, 50V, HiK, Cer. Disc
C602	EP18X262	.01uf, 10%, 50V, HiK, Cer. Disc
C603	EP18X262	.01uf, 10%, 50V, HiK, Cer. Disc
C604	EP18X287	.022uf, +80-20%, 50V, Cer. Disc
C605	EP18X287	.022uf, +80-20%, 50V, Cer. Disc
C606	EP18X287	.022uf, +80-20%, 50V, Cer. Disc
C607	EP18X287	.022uf, +80-20%, 50V, Cer. Disc
C608	EP18X287	.022uf, +80-20%, 50V, Cer. Disc
C609	EP18X287	.022uf, +80-20%, 50V, Cer. Disc
C610	EP18X204	470pf, 10%, 50V, Cer. Disc
C611	EP31X170	4.7uf, 20%, 35V, Elect.
C612	EP18X187	27pf, 5%, 50V, NPO, Cer. Disc
C614	EP18X269	100pf, 10%, 50V, NPO, Cer. Disc
C615	EP18X287	.022uf, +80-20%, 50V, Cer. Disc
C616	EP18X269	100pf, 10%, 50V, NPO, Cer. Disc
C617	EP18X269	100pf, 10%, 50V, NPO, Cer. Disc
C618	EP18X269	100pf, 10%, 50V, NPO, Cer. Disc
C619	EP18X287	.022uf, +80-20%, 50V, Cer. Disc (SET-130 ONLY)
C621	EP31X166	1uf, 20%, 50V, Elect.
C622	EP18X287	.022uf, +80-20%, 50V, Cer. Disc (SET-130 ONLY)
C623	EP31X149	10uf, 20%, 35V, Elect.
C624	EP18X287	.022uf, +80-20%, 50V, Cer. Disc
C625	EP18X262	.01uf, 10%, 50V, HiK, Cer. Disc
C626	EP18X287	.022uf, +80-20%, 50V, Cer. Disc
C627	EP18X287	.022uf, +80-20%, 50V, Cer. Disc
C629	EP31X173	2.2uf, 20%, 50V, Elect.
C650	EP31X149	10uf, 20%, 35V, Elect.

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R101	Common	3.9K ohm, 5%, 1/8W, Carbon
R102	ES14X58	470 ohm, 5%, 1/4W, Carbon
R103	Common	1.8K ohm, 5%, 1/2W, Carbon
R104	EP14X209	*33 ohm, 5%, 1W, Carbon
R105	EP14X182	68 ohm, 5%, 1/4W, Carbon
R106	Common	39 ohm, 5%, 1/8W, Carbon
R202	EP14X284	10K ohm, 5%, 1/8W, Carbon
R500	ES14X71	1K ohm, 5%, 1/8W, Carbon
R501	EP14X284	1K ohm, 5%, 1/8W, Carbon
R502	EP14X180	5.6K ohm, 5%, 1/8W, Carbon
R503	EP14X284	1K ohm, 5%, 1/8W, Carbon
R507	EP14X271	33K ohm, 5%, 1/8W, Carbon
R508	Common	4.3meg ohm, 5%, 1/4W, Carbon
R509	EP14X271	33K ohm, 5%, 1/8W, Carbon
R511	ES14X59	560 ohm, 5%, 1/8W, Carbon
R512	ES14X62	1.5K ohm, 5%, 1/8W, Carbon
R513	EP14X284	10K ohm, 5%, 1/8W, Carbon
R514	EP14X284	10K ohm, 5%, 1/8W, Carbon
R515	ES14X71	1K ohm, 5%, 1/8W, Carbon
R516	ES14X70	100 ohm, 5%, 1/8W, Carbon
R517	Common	200K ohm, 5%, 1/8W, Carbon
R520	EP14X212	82 ohm, 5%, 1/8W, Carbon
R601	Common	6.2K ohm, 5%, 1/8W, Carbon
R602	EP14X271	16K ohm, 5%, 1/8W, Carbon
R603	EP14X284	10K ohm, 5%, 1/8W, Carbon
R604	EP14X285	15K ohm, 5%, 1/8W, Carbon
R605	Common	1.2K ohm, 5%, 1/8W, Carbon
R606	EP14X285	15K ohm, 5%, 1/8W, Carbon
R607	EP14X180	5.6K ohm, 5%, 1/8W, Carbon
R608	EP14X303	22K ohm, 5%, 1/8W, Carbon
R609	EP14X104	22K ohm, 5%, 1/8W, Carbon
R610	EP14X303	100K ohm, 5%, 1/8W, Carbon
R611	EP14X303	100K ohm, 5%, 1/8W, Carbon
R612	EP14X183	3.3K ohm, 5%, 1/8W, Carbon
R613	Common	1.2K ohm, 5%, 1/8W, Carbon
R614	Common	1.2K ohm, 5%, 1/8W, Carbon
R615	EP14X183	3.3K ohm, 5%, 1/8W, Carbon
R616	EP14X183	3.3K ohm, 5%, 1/8W, Carbon
R617	EP14X183	3.3K ohm, 5%, 1/8W, Carbon
R618	EP14X284	10K ohm, 5%, 1/8W, Carbon
R619	EP14X284	10K ohm, 5%, 1/8W, Carbon
R620	EP14X284	10K ohm, 5%, 1/8W, Carbon
R621	EP14X284	10K ohm, 5%, 1/8W, Carbon
R622	EP14X284	10K ohm, 5%, 1/8W, Carbon
R623	EP14X284	10K ohm, 5%, 1/8W, Carbon
R624	EP14X193	47K ohm, 5%, 1/8W, Carbon
R625	EP14X193	47K ohm, 5%, 1/8W, Carbon
R626	EP14X193	47K ohm, 5%, 1/8W, Carbon
R627	EP14X193	47K ohm, 5%, 1/8W, Carbon
R628	EP14X193	47K ohm, 5%, 1/8W, Carbon
R629	EP14X193	47K ohm, 5%, 1/8W, Carbon
R630	EP14X125	47K ohm, 5%, 1/8W, Carbon
R631	EP14X284	10K ohm, 5%, 1/8W, Carbon

lugs
LAY-Green
elect
UIT BOARD

ET-130 ONLY)

ET-130 ONLY)

RESISTORS

REF. NO.	PART NO.	DESCRIPTION
R101	Common	3.9K ohm, 5%, 1/8W, Carbon
R102	ES14X58	470 ohm, 5%, 1/4W, Carbon
R103	Common	1.8K ohm, 5%, 1/2W, Carbon
R104	EP14X209	33 ohm, 5%, 1W, Carbon
R105	EP14X182	68 ohm, 5%, 1/4W, Carbon
R106	Common	39 ohm, 5%, 1/8W, Carbon
R202	EP14X284	10K ohm, 5%, 1/8W, Carbon
R500	ES14X71	1K ohm, 5%, 1/8W, Carbon
R501	EP14X284	1K ohm, 5%, 1/8W, Carbon
R502	EP14X180	5.6K ohm, 5%, 1/8W, Carbon
R503	EP14X284	1K ohm, 5%, 1/8W, Carbon
R507	EP14X271	33K ohm, 5%, 1/8W, Carbon
R508	Common	4.3meg ohm, 5%, 1/4W, Carbon
R509	EP14X271	33K ohm, 5%, 1/8W, Carbon
R511	ES14X59	560 ohm, 5%, 1/8W, Carbon
R512	ES14X62	1.5K ohm, 5%, 1/8W, Carbon
R513	EP14X284	10K ohm, 5%, 1/8W, Carbon
R514	EP14X284	10K ohm, 5%, 1/8W, Carbon
R515	ES14X71	1K ohm, 5%, 1/8W, Carbon
R516	ES14X70	100 ohm, 5%, 1/8W, Carbon
R517	Common	200K ohm, 5%, 1/8W, Carbon
R520	EP14X212	82 ohm, 5%, 1/8W, Carbon
R601	Common	6.2K ohm, 5%, 1/8W, Carbon
R602	EP14X271	16K ohm, 5%, 1/8W, Carbon
R603	EP14X284	10K ohm, 5%, 1/8W, Carbon
R604	EP14X285	15K ohm, 5%, 1/8W, Carbon
R605	Common	1.2K ohm, 5%, 1/8W, Carbon
R606	EP14X285	15K ohm, 5%, 1/8W, Carbon
R607	EP14X180	5.6K ohm, 5%, 1/8W, Carbon
R608	EP14X303	22K ohm, 5%, 1/8W, Carbon
R609	EP14X104	22K ohm, 5%, 1/8W, Carbon
R610	EP14X303	100K ohm, 5%, 1/8W, Carbon
R611	EP14X303	100K ohm, 5%, 1/8W, Carbon
R612	EP14X183	3.3K ohm, 5%, 1/8W, Carbon
R613	Common	1.2K ohm, 5%, 1/8W, Carbon
R614	Common	1.2K ohm, 5%, 1/8W, Carbon
R615	EP14X183	3.3K ohm, 5%, 1/8W, Carbon
R616	EP14X183	3.3K ohm, 5%, 1/8W, Carbon
R617	EP14X183	3.3K ohm, 5%, 1/8W, Carbon
R618	EP14X284	10K ohm, 5%, 1/8W, Carbon
R619	EP14X284	10K ohm, 5%, 1/8W, Carbon
R620	EP14X284	10K ohm, 5%, 1/8W, Carbon
R621	EP14X284	10K ohm, 5%, 1/8W, Carbon
R622	EP14X284	10K ohm, 5%, 1/8W, Carbon
R623	EP14X284	10K ohm, 5%, 1/8W, Carbon
R624	EP14X193	47K ohm, 5%, 1/8W, Carbon
R625	EP14X193	47K ohm, 5%, 1/8W, Carbon
R626	EP14X193	47K ohm, 5%, 1/8W, Carbon
R627	EP14X193	47K ohm, 5%, 1/8W, Carbon
R628	EP14X193	47K ohm, 5%, 1/8W, Carbon
R629	EP14X193	47K ohm, 5%, 1/8W, Carbon
R630	EP14X125	47K ohm, 5%, 1/8W, Carbon
R631	EP14X284	10K ohm, 5%, 1/8W, Carbon
R632	EP14X285	15K ohm, 5%, 1/8W, Carbon
R633	EP14X285	15K ohm, 5%, 1/8W, Carbon
R635	EP14X303	22K ohm, 5%, 1/8W, Carbon
R636	EP14X193	47K ohm, 5%, 1/8W, Carbon
R637	EP14X103	10K ohm, 5%, 1/8W, Carbon
R638	EP14X284	1K ohm, 5%, 1/8W, Carbon
R639	EP14X303	220K ohm, 5%, 1/8W, Carbon
R641	EP14X271	33K ohm, 5%, 1/8W, Carbon
R642	EP14X133	470K ohm, 5%, 1/8W, Carbon
R643	EP14X284	10K ohm, 5%, 1/8W, Carbon
R644	ES14X70	100 ohm, 5%, 1/8W, Carbon
R645	EP14X271	33K ohm, 5%, 1/8W, Carbon
R648	Common	30K ohm, 5%, 1/8W, Carbon
R649	ES14X71	1K ohm, 5%, 1/8W, Carbon
R650	EP14X238	620 ohm, 5%, 1/8W, Carbon
R651	EP14X238	620 ohm, 5%, 1/8W, Carbon
R652	EP14X238	620 ohm, 5%, 1/8W, Carbon
R653	EP14X238	620 ohm, 5%, 1/8W, Carbon
R654	EP14X238	620 ohm, 5%, 1/8W, Carbon
R655	EP14X238	620 ohm, 5%, 1/8W, Carbon
R656	EP14X238	620 ohm, 5%, 1/8W, Carbon
R657	EP14X238	620 ohm, 5%, 1/8W, Carbon
R658	EP14X238	620 ohm, 5%, 1/8W, Carbon
R659	EP14X238	620 ohm, 5%, 1/8W, Carbon
R660	EP14X238	620 ohm, 5%, 1/8W, Carbon
R661	EP14X238	620 ohm, 5%, 1/8W, Carbon
R662	EP14X238	620 ohm, 5%, 1/8W, Carbon
R663	EP14X238	620 ohm, 5%, 1/8W, Carbon
R664	EP14X284	10K ohm, 5%, 1/8W, Carbon
R665	EP14X284	10K ohm, 5%, 1/8W, Carbon
R666	EP14X284	10K ohm, 5%, 1/8W, Carbon
R667	EP14X125	47K ohm, 5%, 1/8W, Carbon
R668	EP14X193	47K ohm, 5%, 1/8W, Carbon
R669	EP14X303	22K ohm, 5%, 1/8W, Carbon
R670	EP14X193	47K ohm, 5%, 1/8W, Carbon
R671	EP14X103	10K ohm, 5%, 1/8W, Carbon
R672	EP14X103	10K ohm, 5%, 1/8W, Carbon
R673	EP14X103	10K ohm, 5%, 1/8W, Carbon
R674	EP14X103	10K ohm, 5%, 1/8W, Carbon
R675	EP14X103	10K ohm, 5%, 1/8W, Carbon
R676	EP14X103	10K ohm, 5%, 1/8W, Carbon
R677	Common	43K ohm, 5%, 1/8W, Carbon
R678	EP14X285	15K ohm, 5%, 1/8W, Carbon
R679	EP14X285	15K ohm, 5%, 1/8W, Carbon
R680	EP14X285	15K ohm, 5%, 1/8W, Carbon
R681	EP14X285	15K ohm, 5%, 1/8W, Carbon
R682	EP14X285	15K ohm, 5%, 1/8W, Carbon
R683	EP14X285	15K ohm, 5%, 1/8W, Carbon
R684	EP14X193	47K ohm, 5%, 1/8W, Carbon
R685	EP14X303	470 ohm, 5%, 1/8W, Carbon
R687	EP14X104	22K ohm, 5%, 1/4W, Carbon (SET-130 ONLY)
R688	EP14X103	10K ohm, 5%, 1/8W, Carbon
R689	EP14X284	10K ohm, 5%, 1/8W, Carbon
R690	EP14X271	8.2K ohm, 5%, 1/8W, Carbon
R691	ES14X70	100 ohm, 5%, 1/8W, Carbon
R692	EP14X193	47K ohm, 5%, 1/8W, Carbon
R693	Common	220 ohm, 5%, 1/8W, Carbon
R694	ES14X70	100 ohm, 5%, 1/8W, Carbon
R696	EP14X103	10K ohm, 5%, 1/8W, Carbon
R697	EP14X193	47K ohm, 5%, 1/8W, Carbon
R698	EP14X193	47K ohm, 5%, 1/8W, Carbon
R800	EP14X284	10K ohm, 5%, 1/8W, Carbon
R801	EP14X284	10K ohm, 5%, 1/8W, Carbon
R802	EP14X284	10K ohm, 5%, 1/8W, Carbon
R803	EP14X284	10K ohm, 5%, 1/8W, Carbon

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
R640	EP49X486	250K ohm, 20%

INTEGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
IC100	EP84X230	3 TERMINAL VOL. REG.
IC500	EP84X220	PLL/PRESCALE
IC600	EP84X222	CUSTOM
IC601	EP84X236	SET130 CONTROL
IC601	EP84X237	KMPS130 CONTROL
IC800	EP84X224	EAROM

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q101	EP15X87	NPN, Silicon
Q202	EP15X48	PNP, Silicon
Q502	EP15X109	NPN, Silicon
Q503	EP15X87	NPN, Silicon
Q601	EP15X225	PNP, Silicon
Q602	EP15X225	PNP, Silicon
Q603	EP15X87	NPN, Silicon
Q604	EP15X48	PNP, Silicon
Q605	EP15X48	PNP, Silicon
Q606	EP15X48	PNP, Silicon
Q607	EP15X88	NPN, Silicon
Q608	EP15X88	NPN, Silicon
Q609	EP15X88	NPN, Silicon
Q610	EP15X88	NPN, Silicon (SET-130 ONLY)
Q611	EP15X48	PNP, Silicon
Q612	EP15X48	PNP, Silicon
Q615	EP15X48	PNP, Silicon
Q800	EP15X87	NPN, Silicon
Q801	EP15X48	PNP, Silicon

Part No.	Description
EP14X285	15K ohm, 5%, 1/8W, Carbon
EP14X285	15K ohm, 5%, 1/8W, Carbon
EP14X303	22K ohm, 5%, 1/8W, Carbon
EP14X193	47K ohm, 5%, 1/8W, Carbon
EP14X103	10K ohm, 5%, 1/8W, Carbon
EP14X284	1K ohm, 5%, 1/8W, Carbon
EP14X303	220K ohm, 5%, 1/8W, Carbon
EP14X271	33K ohm, 5%, 1/8W, Carbon
EP14X133	470K ohm, 5%, 1/8W, Carbon
EP14X284	10K ohm, 5%, 1/8W, Carbon
ES14X70	100 ohm, 5%, 1/8W, Carbon
EP14X271	33K ohm, 5%, 1/8W, Carbon
Common	30K ohm, 5%, 1/8W, Carbon
ES14X71	1K ohm, 5%, 1/8W, Carbon
EP14X238	620 ohm, 5%, 1/8W, Carbon
EP14X238	620 ohm, 5%, 1/8W, Carbon
EP14X238	620 ohm, 5%, 1/8W, Carbon
EP14X238	620 ohm, 5%, 1/8W, Carbon
EP14X238	620 ohm, 5%, 1/8W, Carbon
EP14X238	620 ohm, 5%, 1/8W, Carbon
EP14X238	620 ohm, 5%, 1/8W, Carbon
EP14X238	620 ohm, 5%, 1/8W, Carbon
EP14X238	620 ohm, 5%, 1/8W, Carbon
EP14X238	620 ohm, 5%, 1/8W, Carbon
EP14X238	620 ohm, 5%, 1/8W, Carbon
EP14X238	620 ohm, 5%, 1/8W, Carbon
EP14X238	620 ohm, 5%, 1/8W, Carbon
EP14X238	620 ohm, 5%, 1/8W, Carbon
EP14X238	620 ohm, 5%, 1/8W, Carbon
EP14X284	10K ohm, 5%, 1/8W, Carbon
EP14X284	10K ohm, 5%, 1/8W, Carbon
EP14X284	10K ohm, 5%, 1/8W, Carbon
EP14X125	47K ohm, 5%, 1/8W, Carbon
EP14X193	47K ohm, 5%, 1/8W, Carbon
EP14X303	22K ohm, 5%, 1/8W, Carbon
EP14X193	47K ohm, 5%, 1/8W, Carbon
EP14X103	10K ohm, 5%, 1/8W, Carbon
EP14X103	10K ohm, 5%, 1/8W, Carbon
EP14X103	10K ohm, 5%, 1/8W, Carbon
EP14X103	10K ohm, 5%, 1/8W, Carbon
EP14X103	10K ohm, 5%, 1/8W, Carbon
EP14X103	10K ohm, 5%, 1/8W, Carbon
Common	43K ohm, 5%, 1/8W, Carbon
EP14X285	15K ohm, 5%, 1/8W, Carbon
EP14X285	15K ohm, 5%, 1/8W, Carbon
EP14X285	15K ohm, 5%, 1/8W, Carbon
EP14X285	15K ohm, 5%, 1/8W, Carbon
EP14X285	15K ohm, 5%, 1/8W, Carbon
EP14X285	15K ohm, 5%, 1/8W, Carbon
EP14X193	47K ohm, 5%, 1/8W, Carbon
EP14X303	470 ohm, 5%, 1/8W, Carbon
EP14X104	22K ohm, 5%, 1/4W, Carbon (SET-130 ONLY)
EP14X103	10K ohm, 5%, 1/8W, Carbon
EP14X284	10K ohm, 5%, 1/8W, Carbon
EP14X271	8.2K ohm, 5%, 1/8W, Carbon
ES14X70	100 ohm, 5%, 1/8W, Carbon
EP14X193	47K ohm, 5%, 1/8W, Carbon

Ref. No.	Part No.	Description
R693	Common	220 ohm, 5%, 1/8W, Carbon
R694	ES14X70	100 ohm, 5%, 1/8W, Carbon
R696	EP14X103	10K ohm, 5%, 1/8W, Carbon
R697	EP14X193	47K ohm, 5%, 1/8W, Carbon
R698	EP14X193	47K ohm, 5%, 1/8W, Carbon
R800	EP14X284	10K ohm, 5%, 1/8W, Carbon
R801	EP14X284	10K ohm, 5%, 1/8W, Carbon
R802	EP14X284	10K ohm, 5%, 1/8W, Carbon
R803	EP14X284	10K ohm, 5%, 1/8W, Carbon

POTENTIOMETER

REF. NO.	PART NO.	DESCRIPTION
R640	EP49X486	250K ohm, 20%

INTEGRATED CIRCUITS

REF. NO.	PART NO.	DESCRIPTION
IC100	EP84X230	3 TERMINAL VOL. REG.
IC500	EP84X220	PLL/PRESCALE
IC600	EP84X222	CUSTOM
IC601	EP84X236	SET130 CONTROL
IC601	EP84X237	KMPS130 CONTROL
IC800	EP84X224	EAROM

TRANSISTORS

REF. NO.	PART NO.	DESCRIPTION
Q101	EP15X87	NPN, Silicon
Q202	EP15X48	PNP, Silicon
Q502	EP15X109	NPN, Silicon
Q503	EP15X87	NPN, Silicon
Q601	EP15X225	PNP, Silicon
Q602	EP15X225	PNP, Silicon
Q603	EP15X87	NPN, Silicon
Q604	EP15X48	PNP, Silicon
Q605	EP15X48	PNP, Silicon
Q606	EP15X48	PNP, Silicon
Q607	EP15X88	NPN, Silicon
Q608	EP15X88	NPN, Silicon
Q609	EP15X88	NPN, Silicon
Q610	EP15X88	NPN, Silicon (SET-130 ONLY)
Q611	EP15X48	PNP, Silicon
Q612	EP15X48	PNP, Silicon
Q615	EP15X48	PNP, Silicon
Q800	EP15X87	NPN, Silicon
Q801	EP15X48	PNP, Silicon

DIODES

REF. NO.	PART NO.	DESCRIPTION
Y103	EP57X4	Rectifier
Y105	EP16X155	Zener
Y106	ES16X27	Silicon
Y107	EP16X156	Zener, 27V
Y108	EP16X152	Zener, 5.1V
Y109	EP16X32	Zener, 30V
Y110	EP57X4	Rectifier
Y111	EP57X4	Rectifier
Y112	EP57X4	Rectifier
Y202	EP16X12	Zener, 7.5V
Y500	ES16X27	Silicon
Y501	ES16X27	Silicon
Y502	ES16X27	Silicon
Y600	ES16X27	Silicon
Y601	ES16X27	Silicon
Y603	EP16X153	Zener, 6.2V
Y604	ES16X27	Silicon
Y605	ES16X27	Silicon
Y607	ES16X27	Silicon
Y608	ES16X27	Silicon
Y609	ES16X27	Silicon
Y800	EP16X32	Zener, 30V

COILS

REF. NO.	PART NO.	DESCRIPTION
L500	EP36X136	CHOKE-15uh, 10%
L501	EP36X136	CHOKE-15uh, 10%
L502	EP36X136	CHOKE-15uh, 10%
X500	EP41X68	CRYSTAL-Qzt. Filter

MISCELLANEOUS

PART NO.	DESCRIPTION
EP34X41	SOCKET-IC100

DECEMBER 1982
(0110F)

0-ALL EP18X214 Are Now EP18X287 5/17/83
1-C621 Was EP18X214, .022uf, +80-20, 50V, Cer. Disc
2-DELETED C689 EP31X149 10uf, 20%, 35V, Elect.
3-R601 Was 6.8K
4-R640 Was EP49X476, 100K ohm, Pot